

place in scan matrix? would need 3-4 wires to UPPER board instead of 2!
 No. VOL+ or VOL- can either be connected to GPIOs
 or drive two FETs that sit in the keyboard matrix
 in any case it is sufficient to connect GPIO-VOL+ and VOL- to two pins on the B2B connector

Buttons

TITLE: sedtest

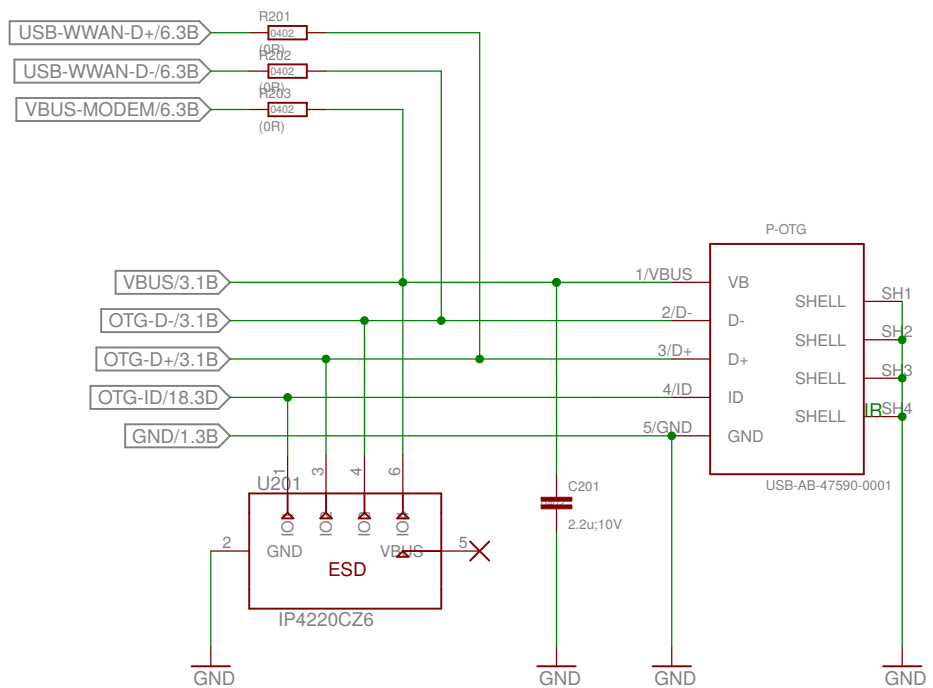
Document Number:

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can be used to test/operate the modem through the OTG port (w/o UPPER PCB)



OTG

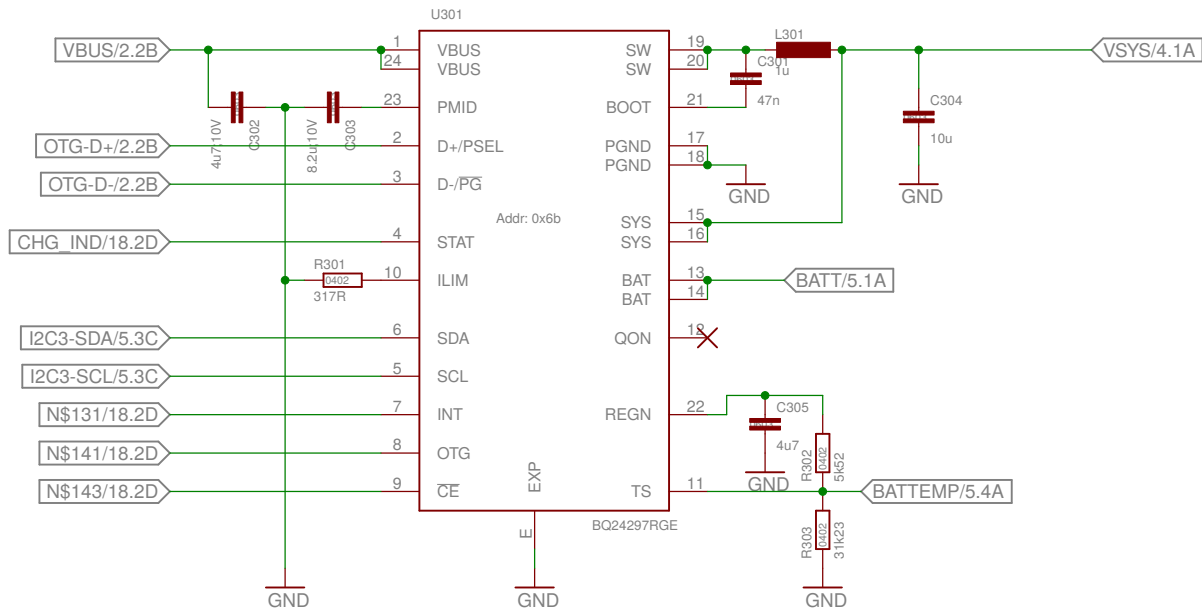
TITLE: sedtest

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Charger/OTG-Booster

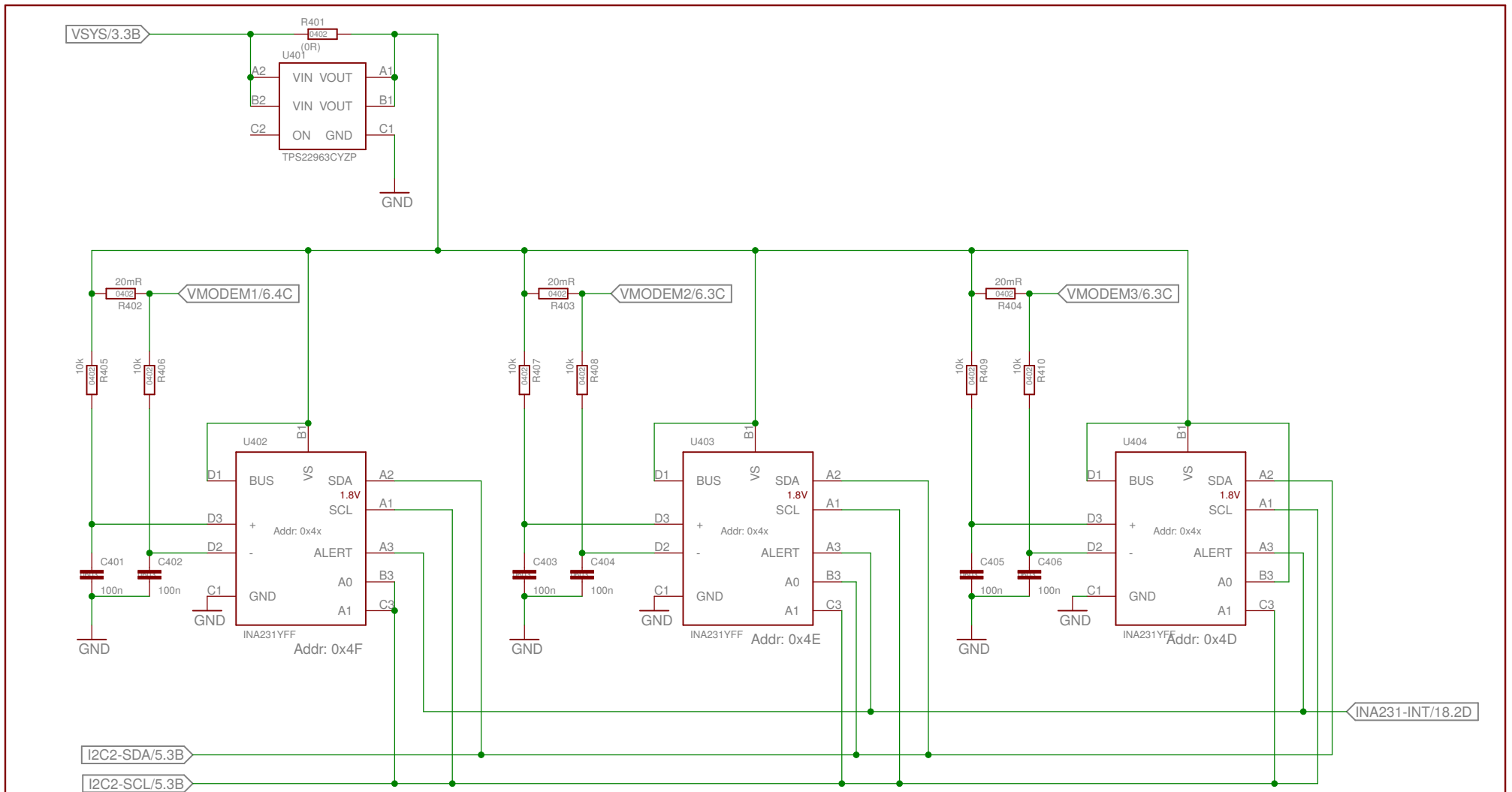
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Modem Power

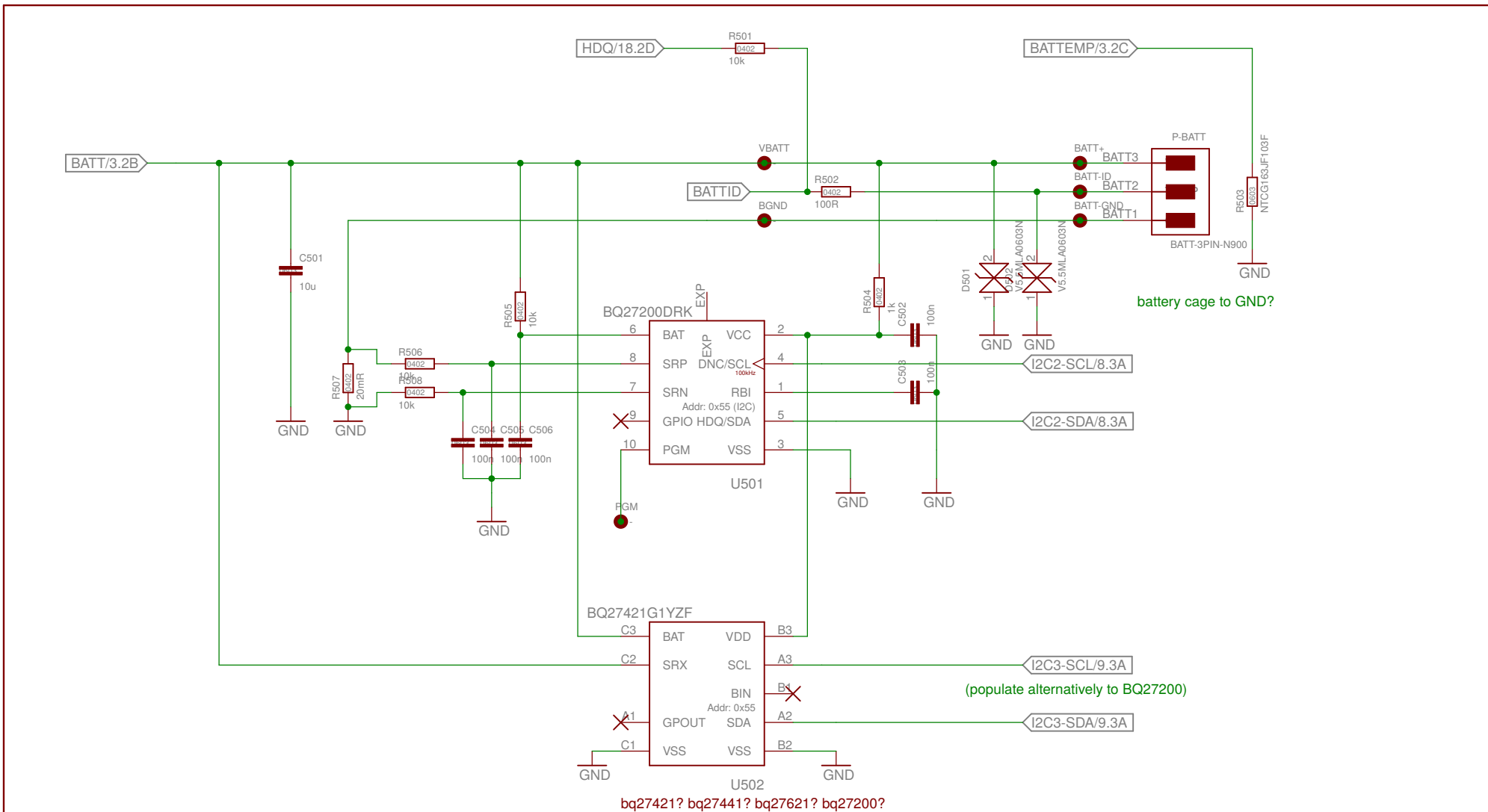
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Fuel Gauge

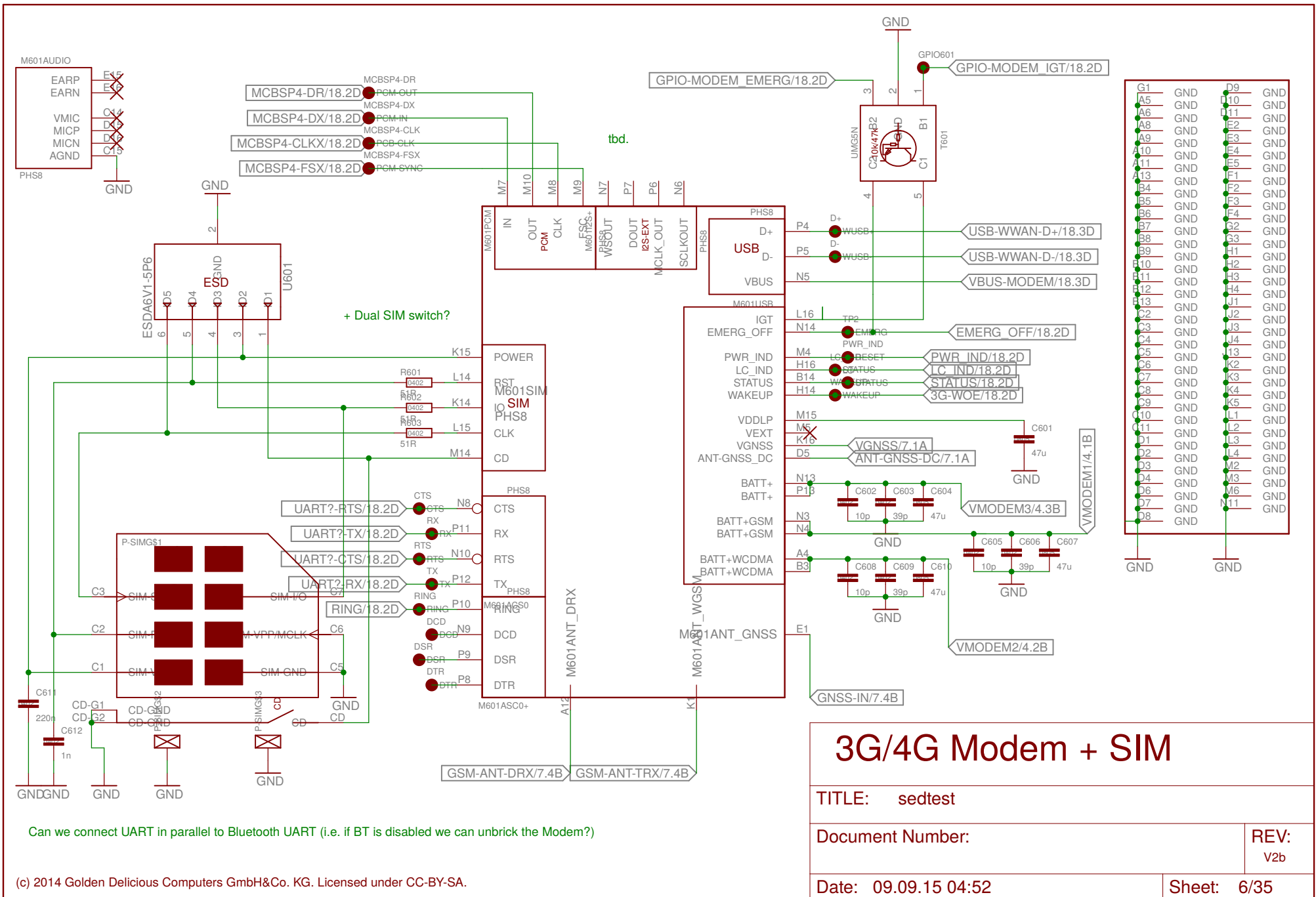
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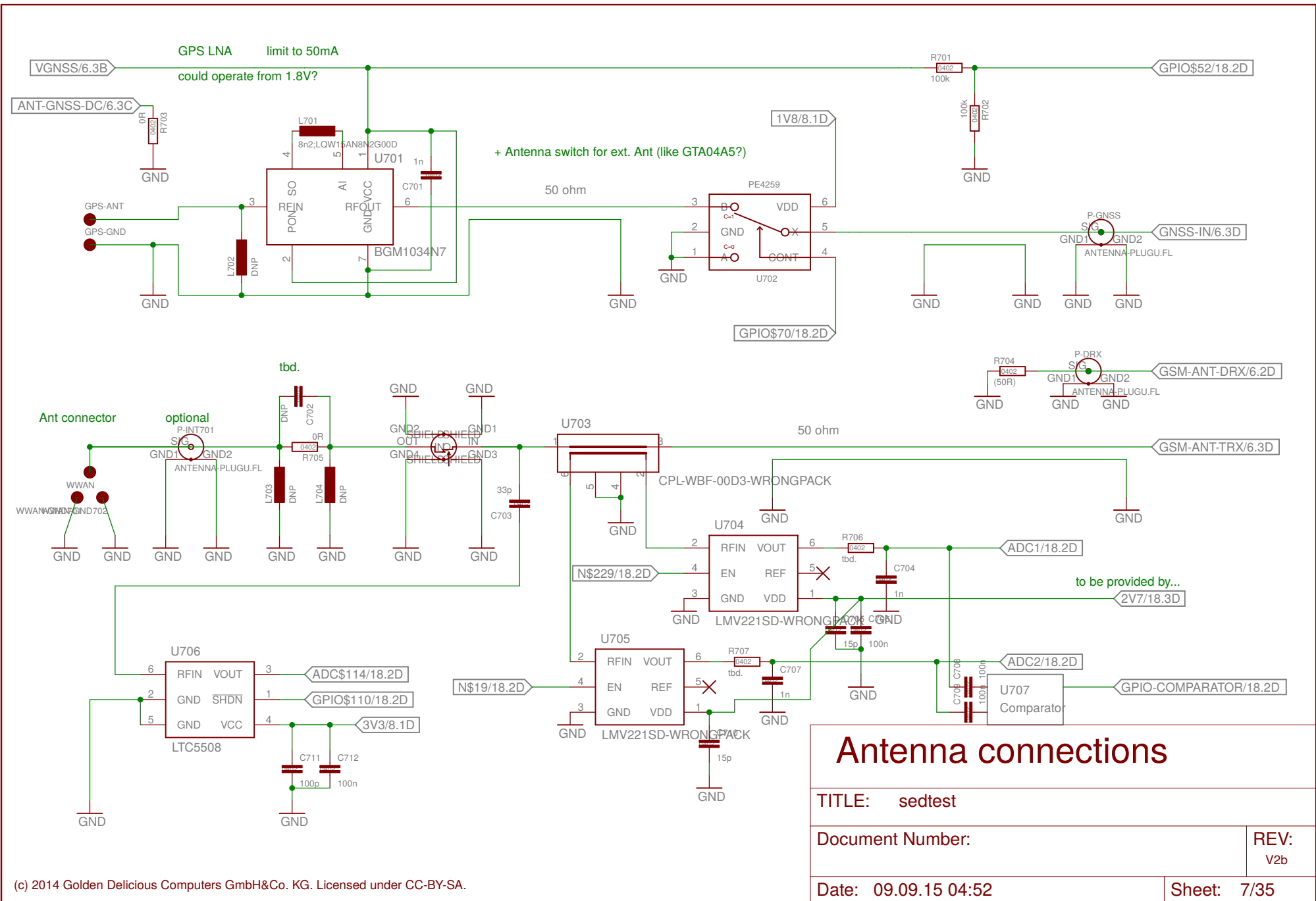
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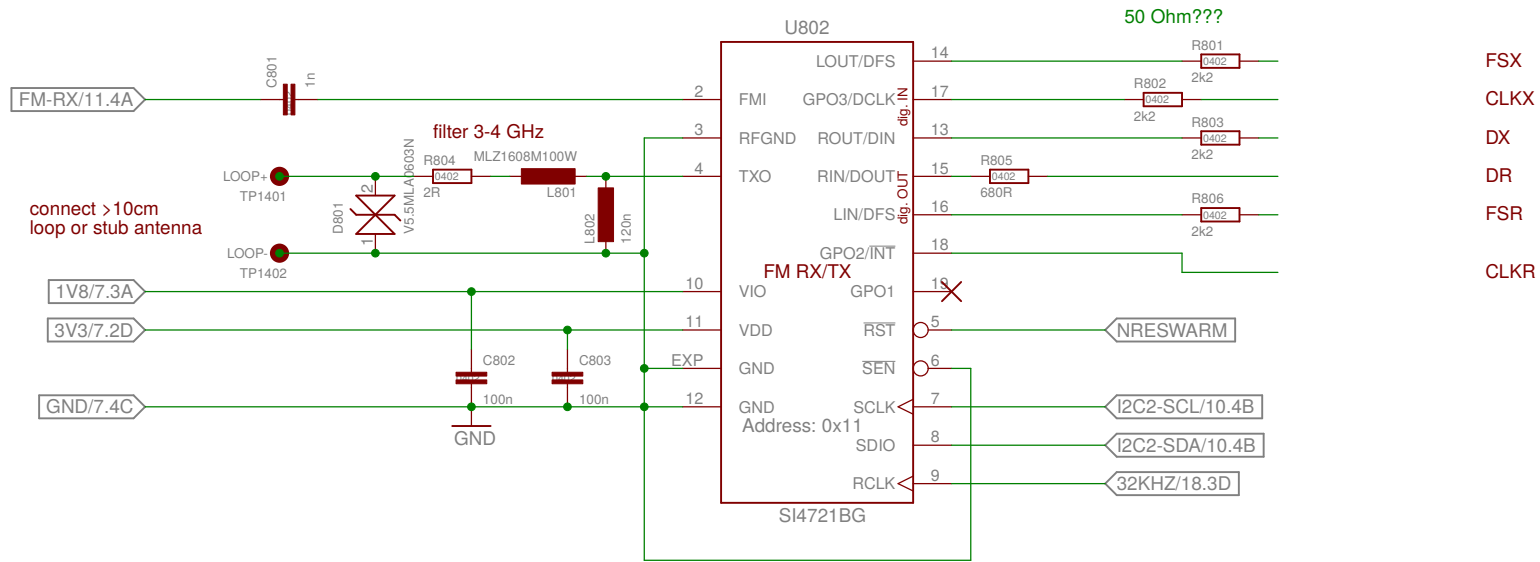


Can we connect UART in parallel to Bluetooth UART (i.e. if BT is disabled we can unbrick the Modem?)



Antenna connections

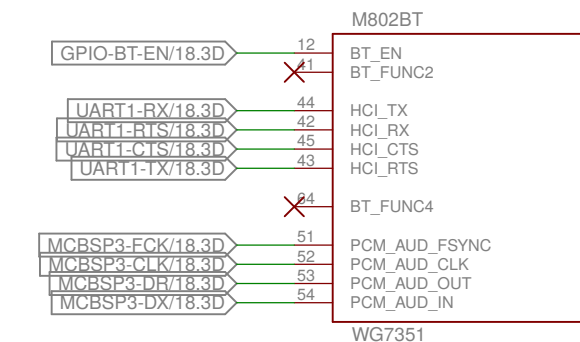
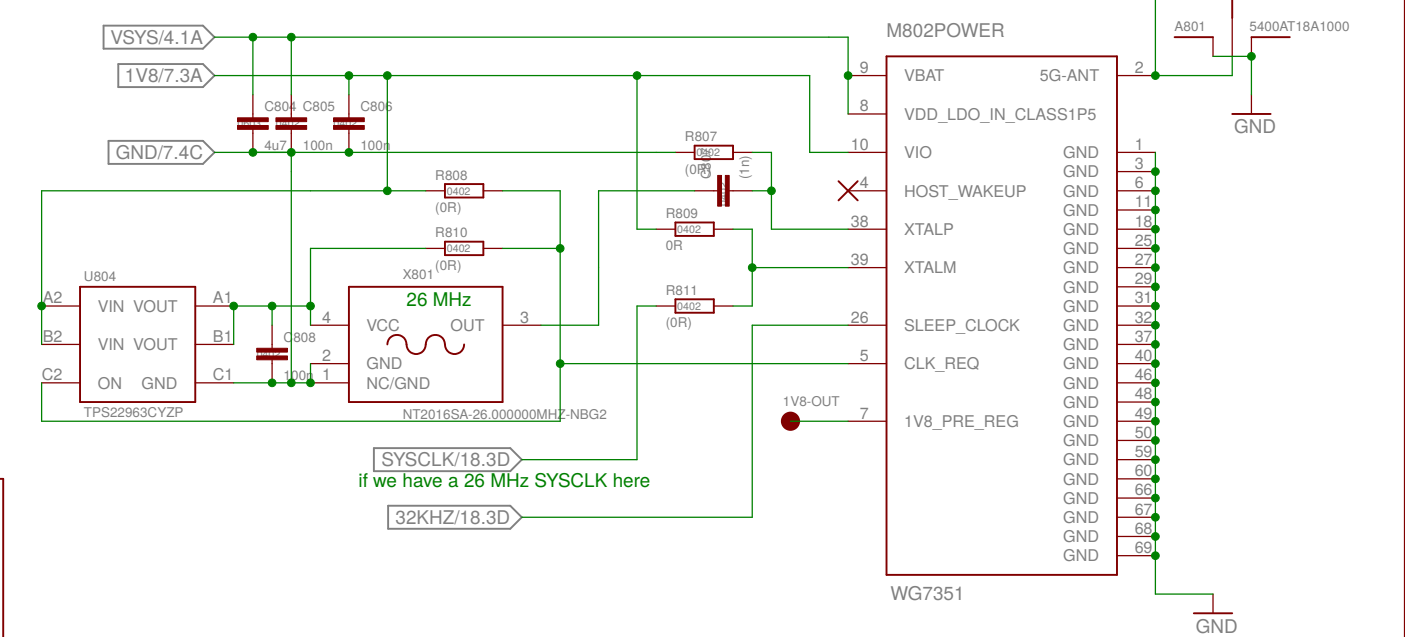
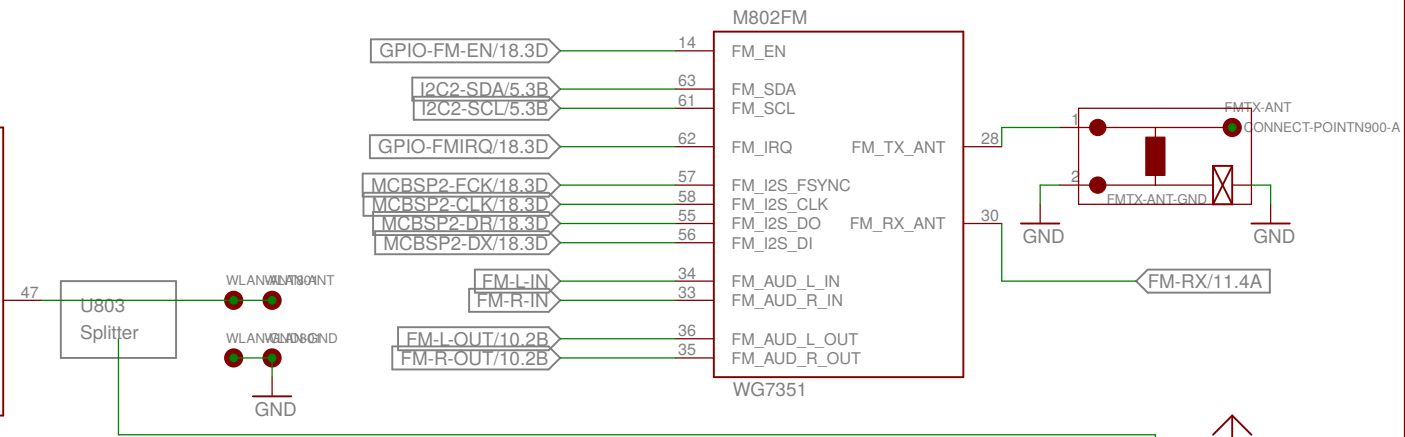
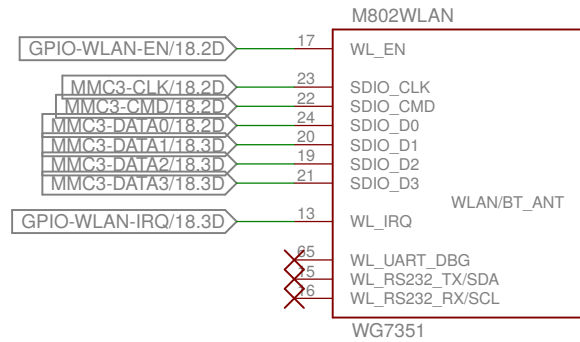
TITLE: sedtest	
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Si4705 is pin compatible (mostly) but RX-only

WiLink5

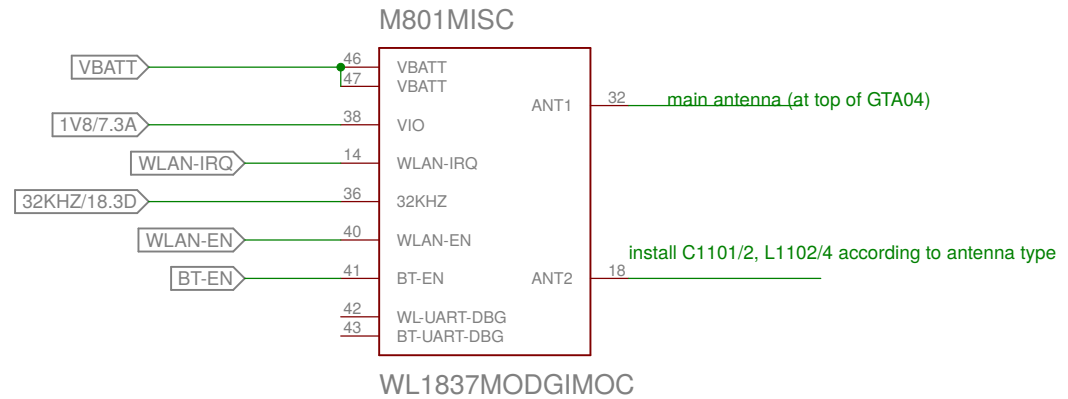
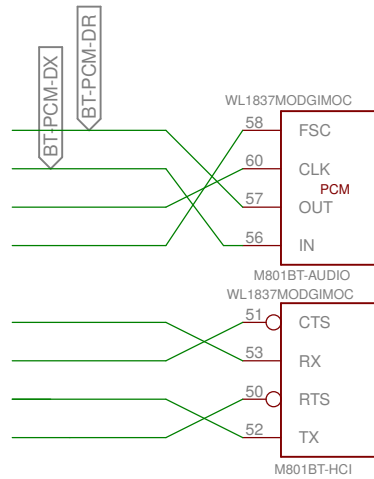
Dämpfungs-RC's?



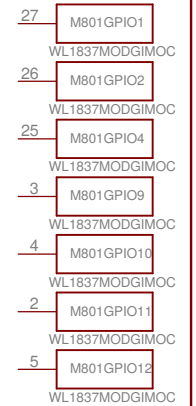
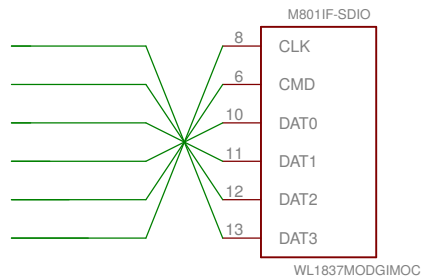
WLAN & Bluetooth & FM

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WiLink8



secondary (on the side of GTA04)
could be 5.8GHz as well



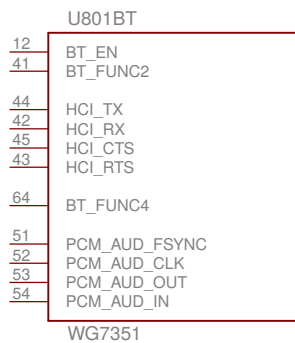
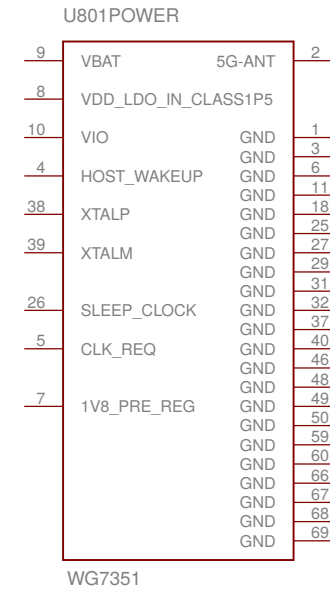
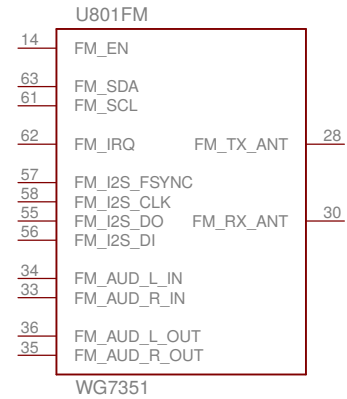
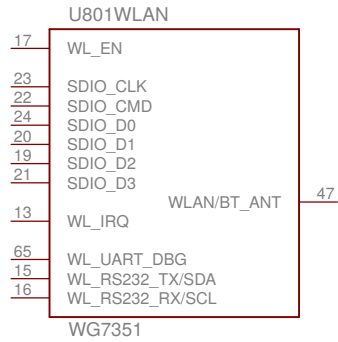
WLAN & Bluetooth & FM

TITLE: sedtest

Document Number:

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WiLink6

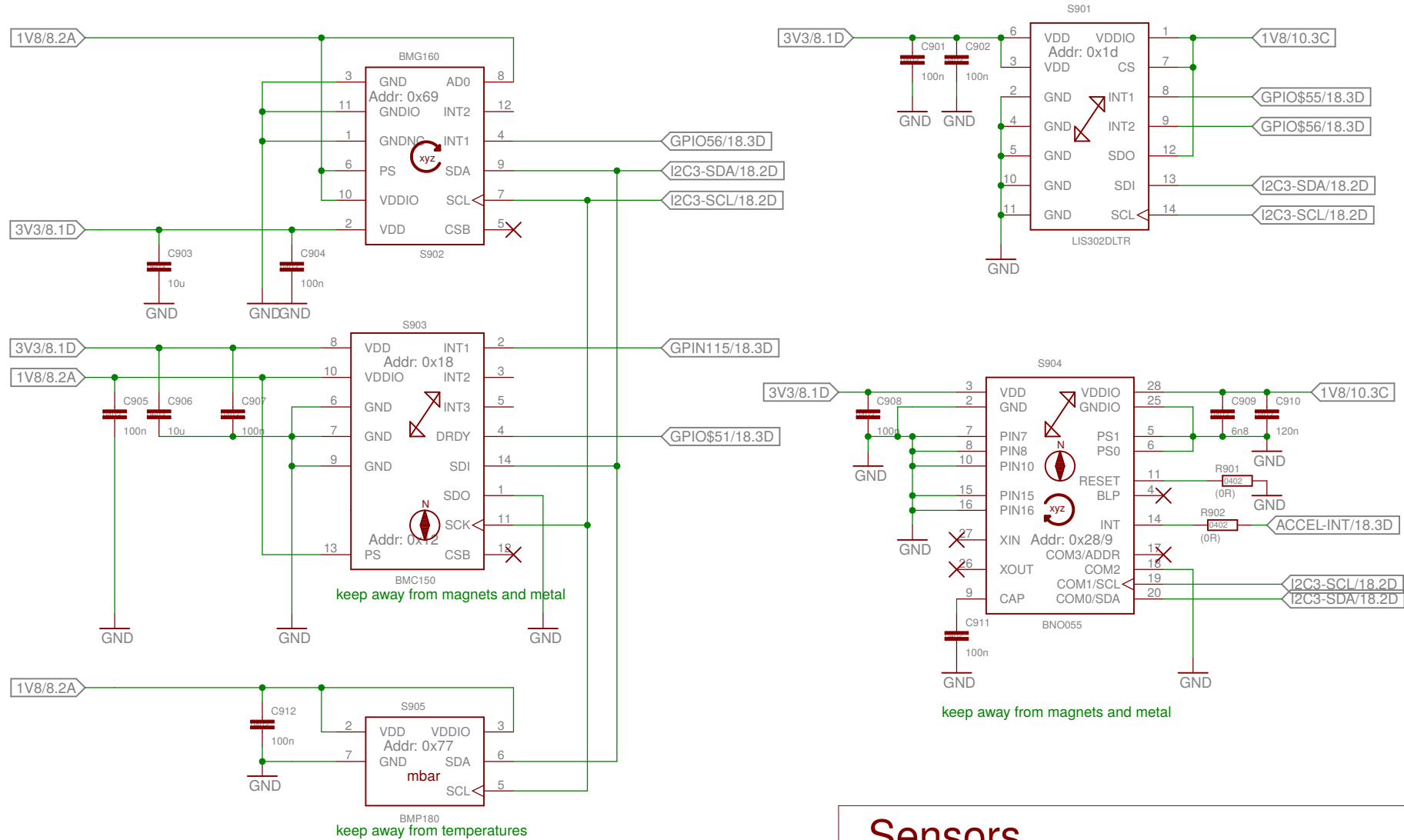


WLAN & Bluetooth & FM

TITLE: sedtest

Document Number:

REV:
V2b



Sensors

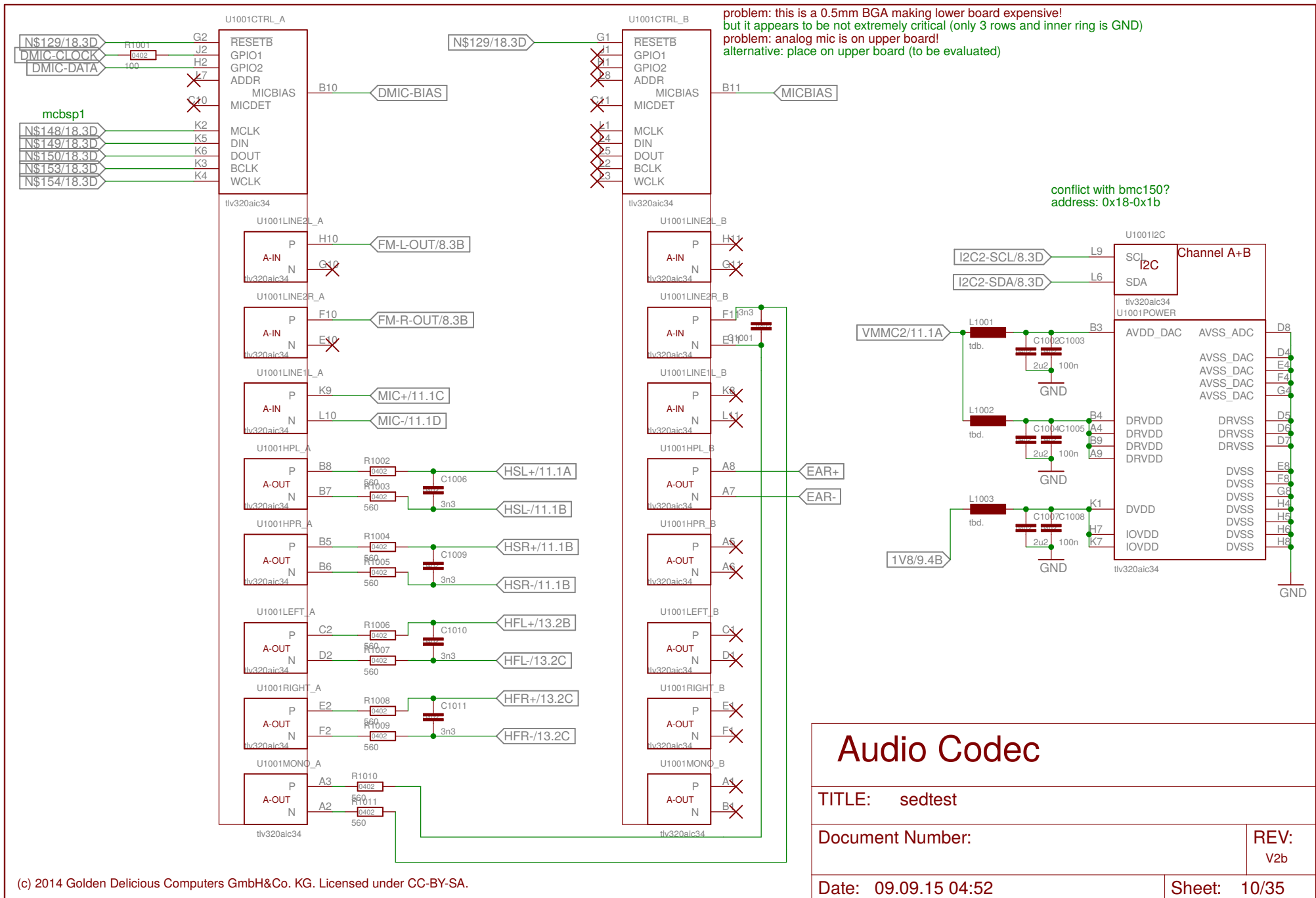
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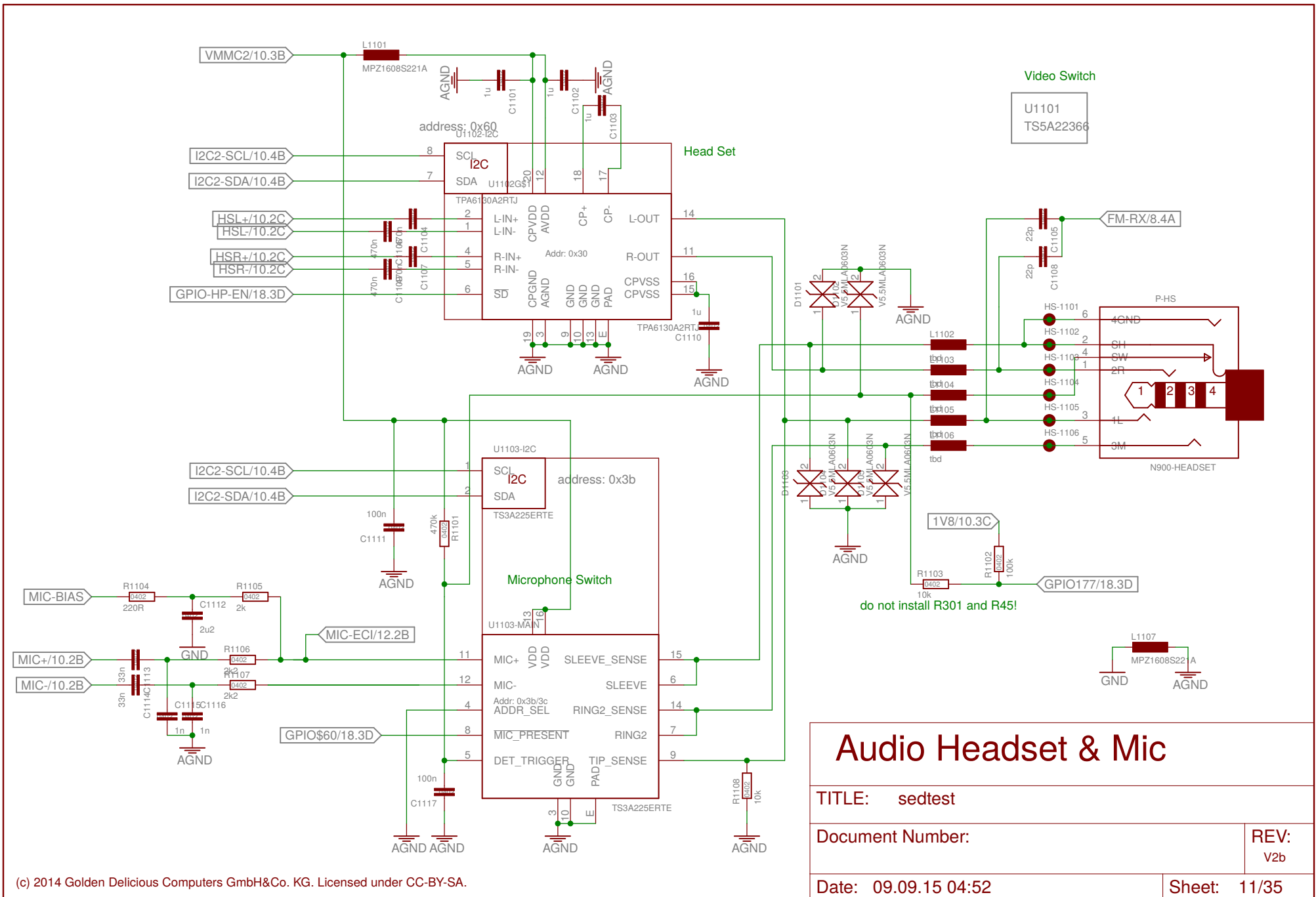
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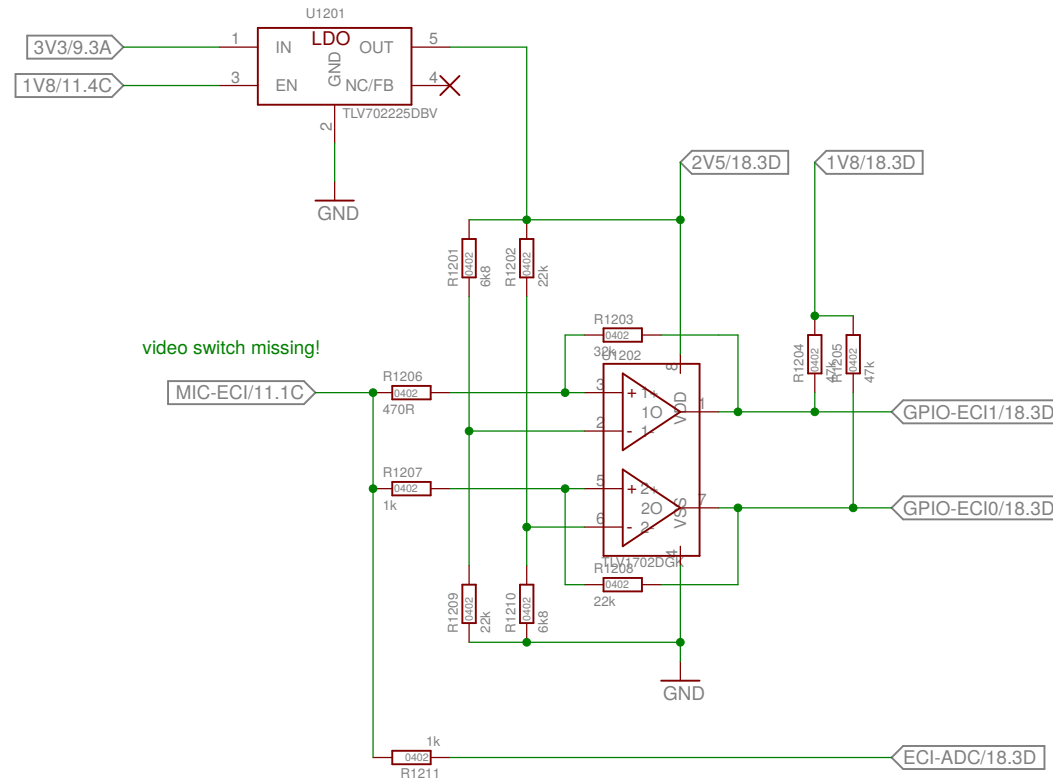
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Audio Headset & Mic

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ECI

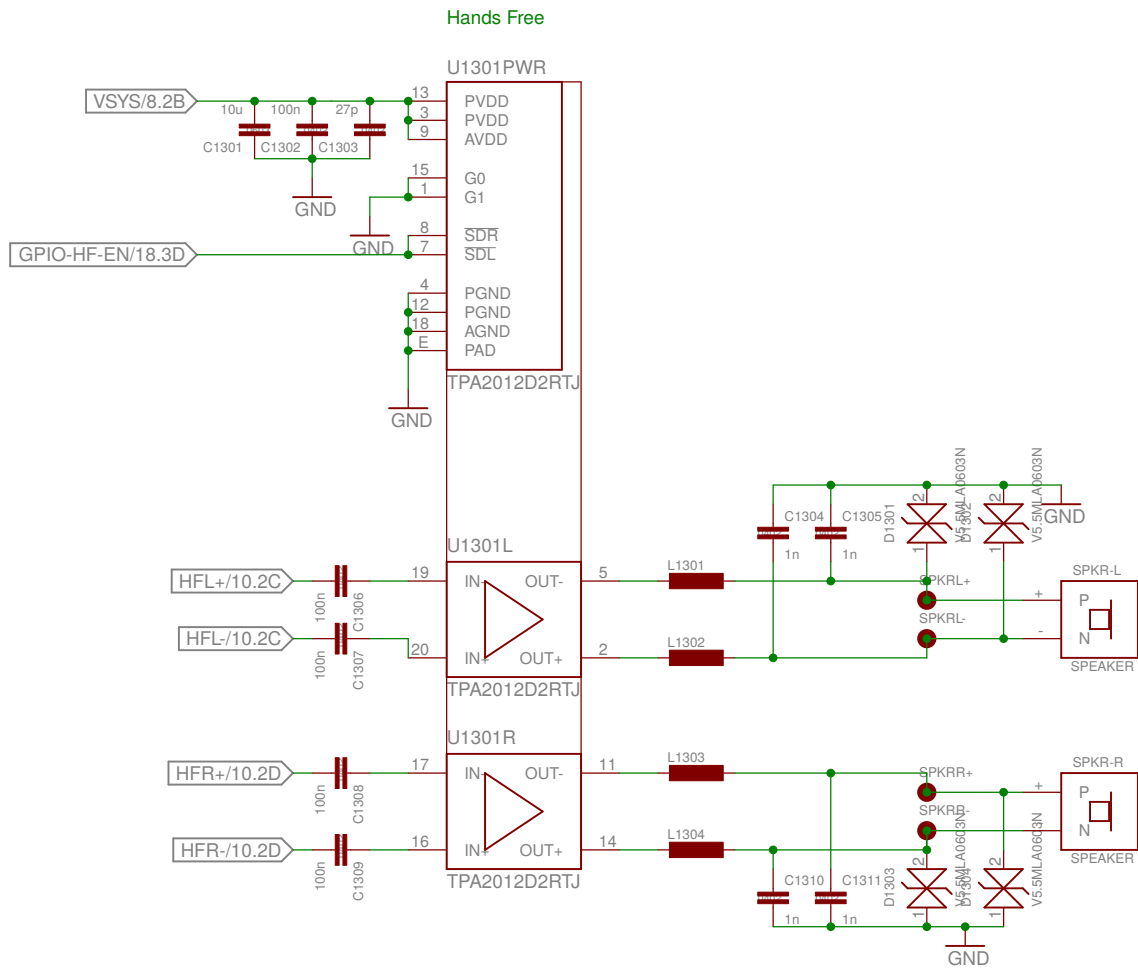
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Audio Handsfree

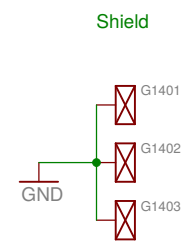
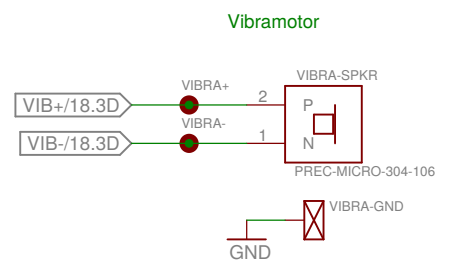
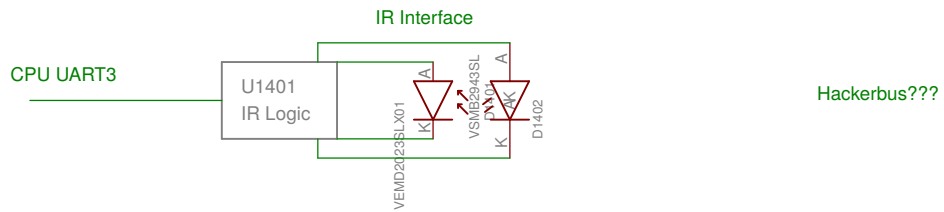
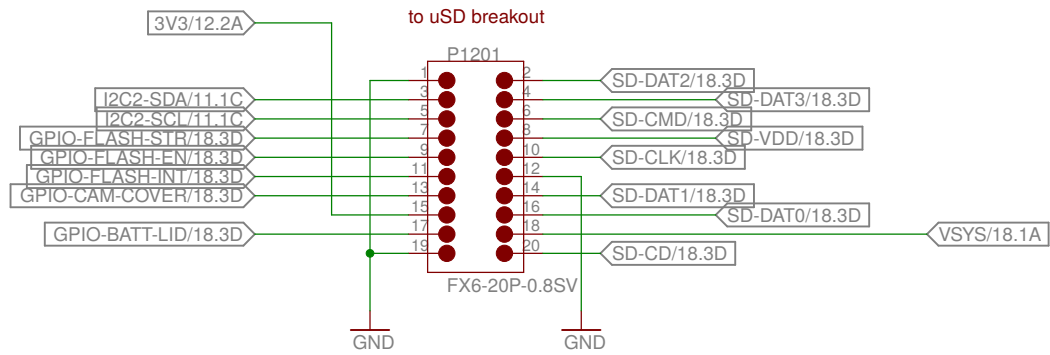
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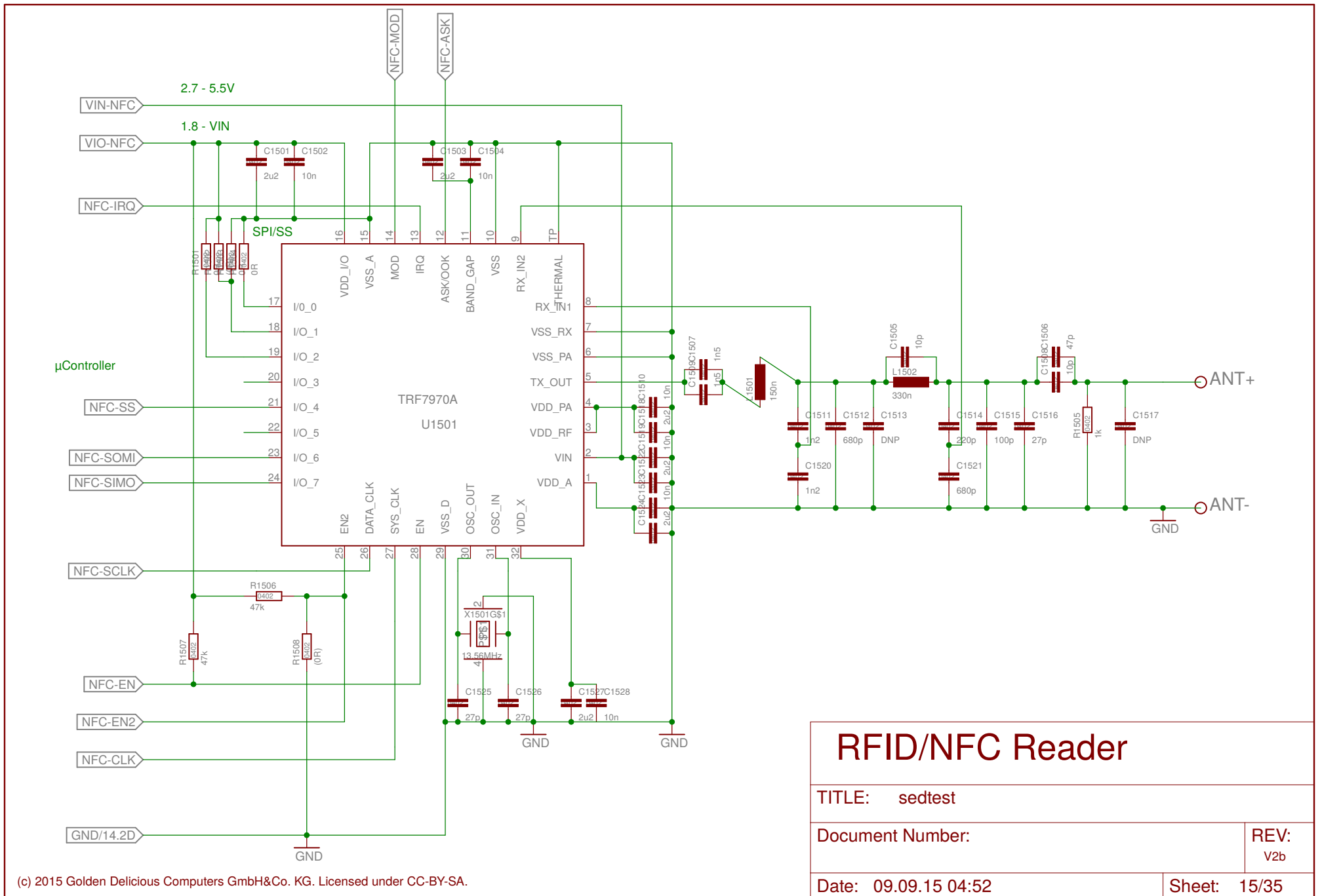
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<h1>Misc (lower)</h1>	
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Hackerbus

TITLE: sedtest

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Infrared

TITLE: sedtest

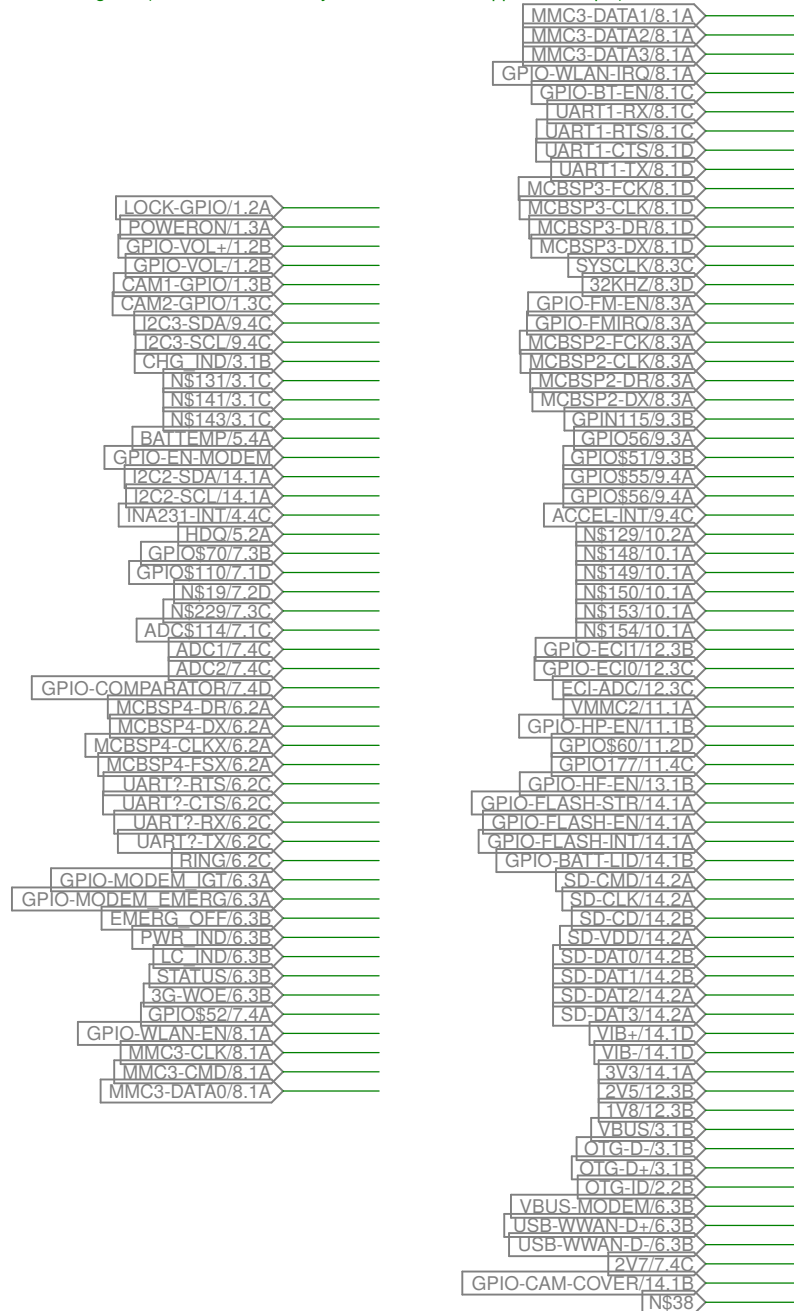
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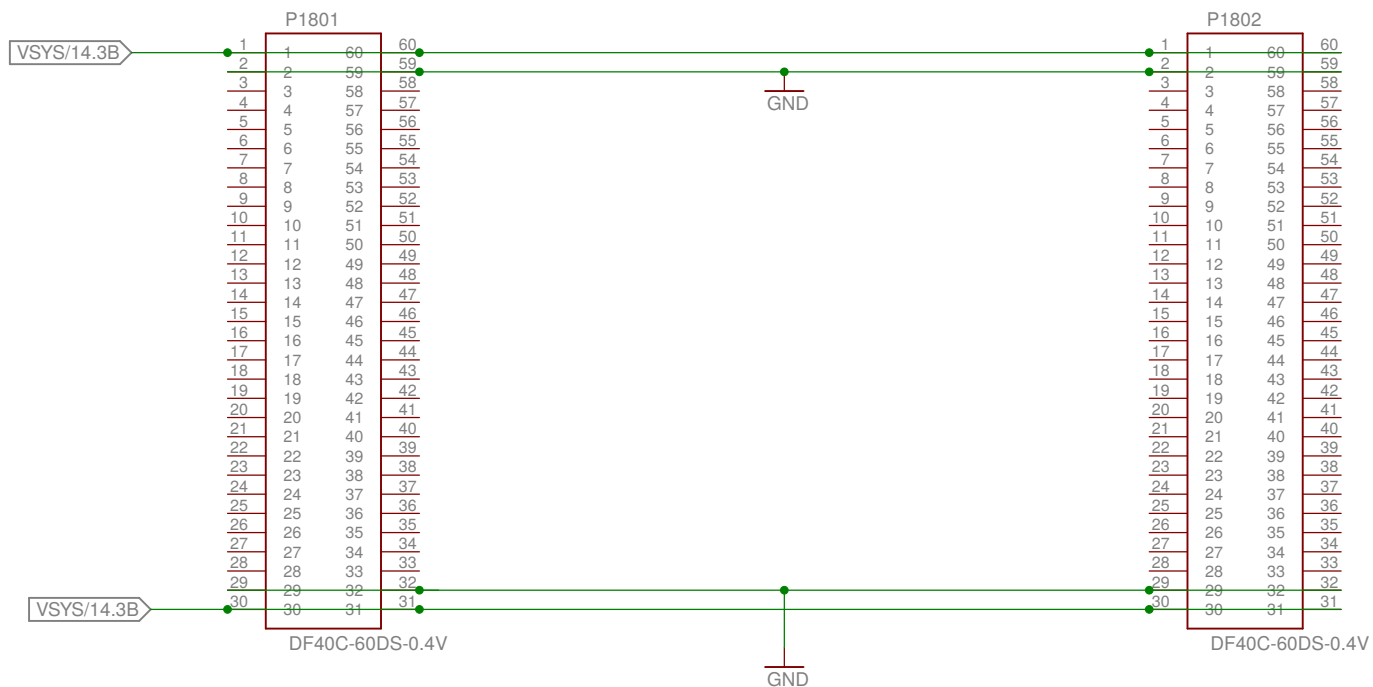
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ca. 130 signals (to be counted exactly after definition of upper/lower split)



Pin assignment must be optimized for final component placement
we might have to switch to 80 or 100 pin connectors



B2B to upper board

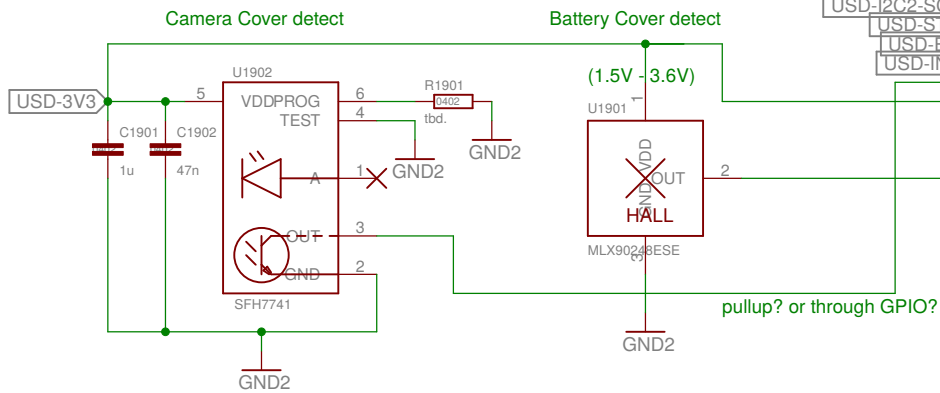
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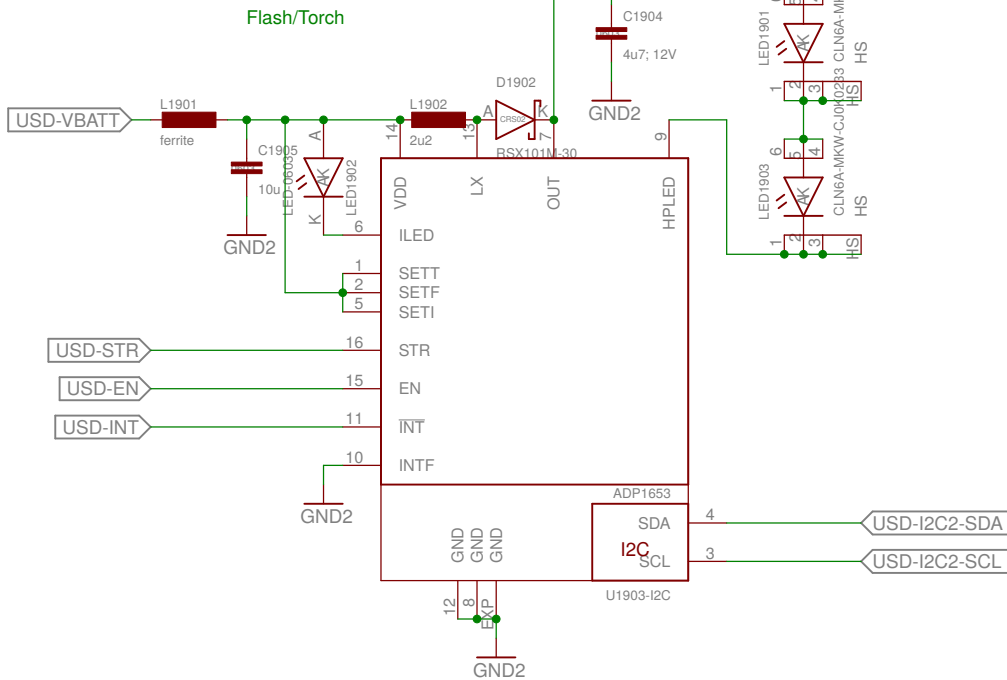
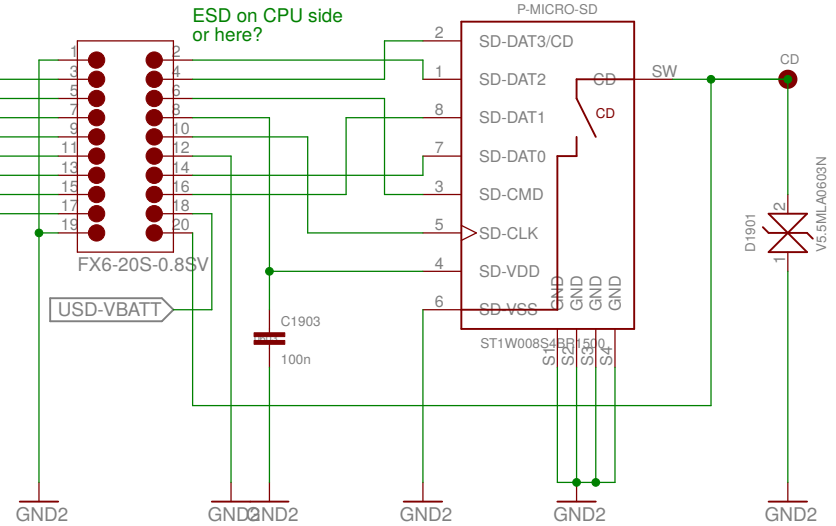
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USD-I2C2-SDA
 USD-I2C2-SCL
 USD-STR
 USD-EN
 USD-INT



μSD Breakout Board

TITLE: sedtest

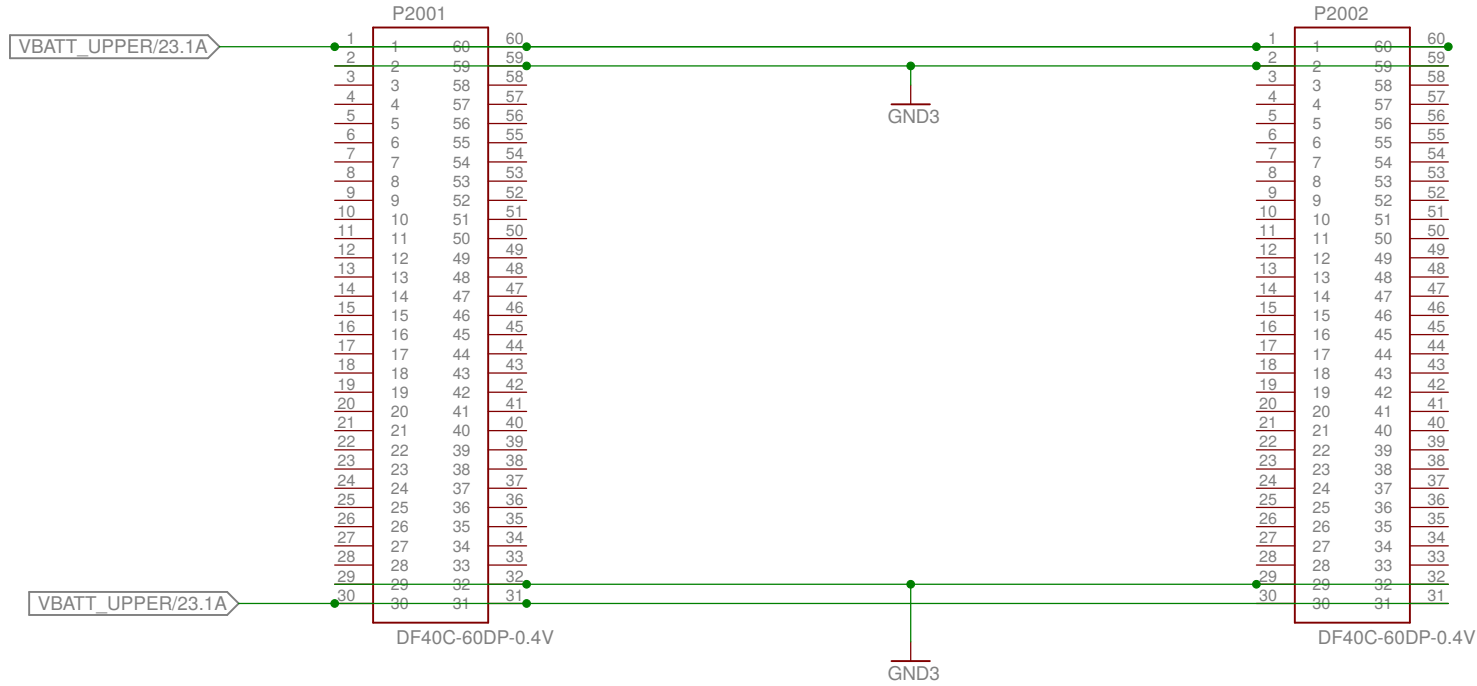
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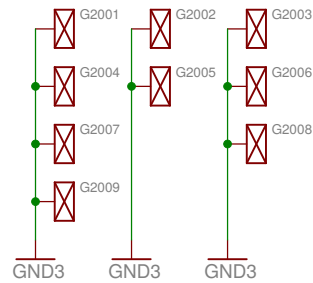
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to be adjusted to lower board connector



SHIELD



B2B to lower board

TITLE: sedtest

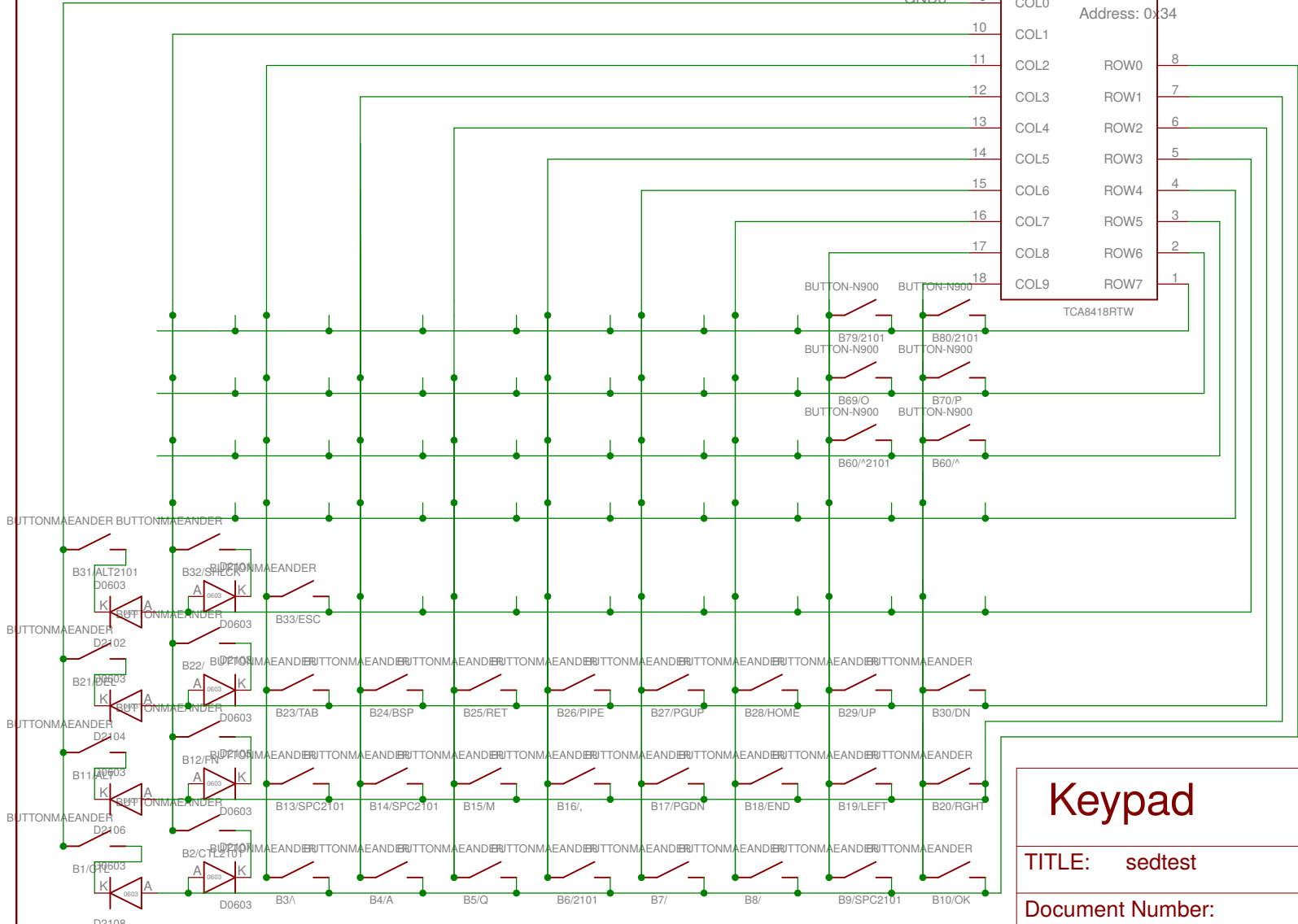
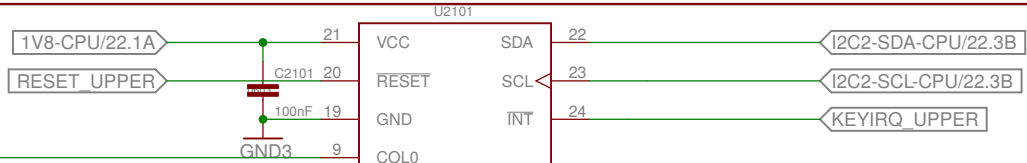
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V2b

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needs final tuning (which button on which position)
 VOL+ and VOL- could drive FETs sitting in the matrix



Keypad

TITLE: sedtest

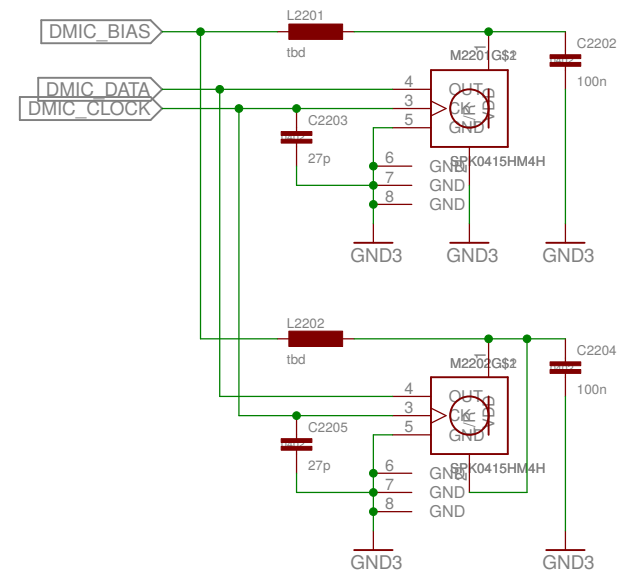
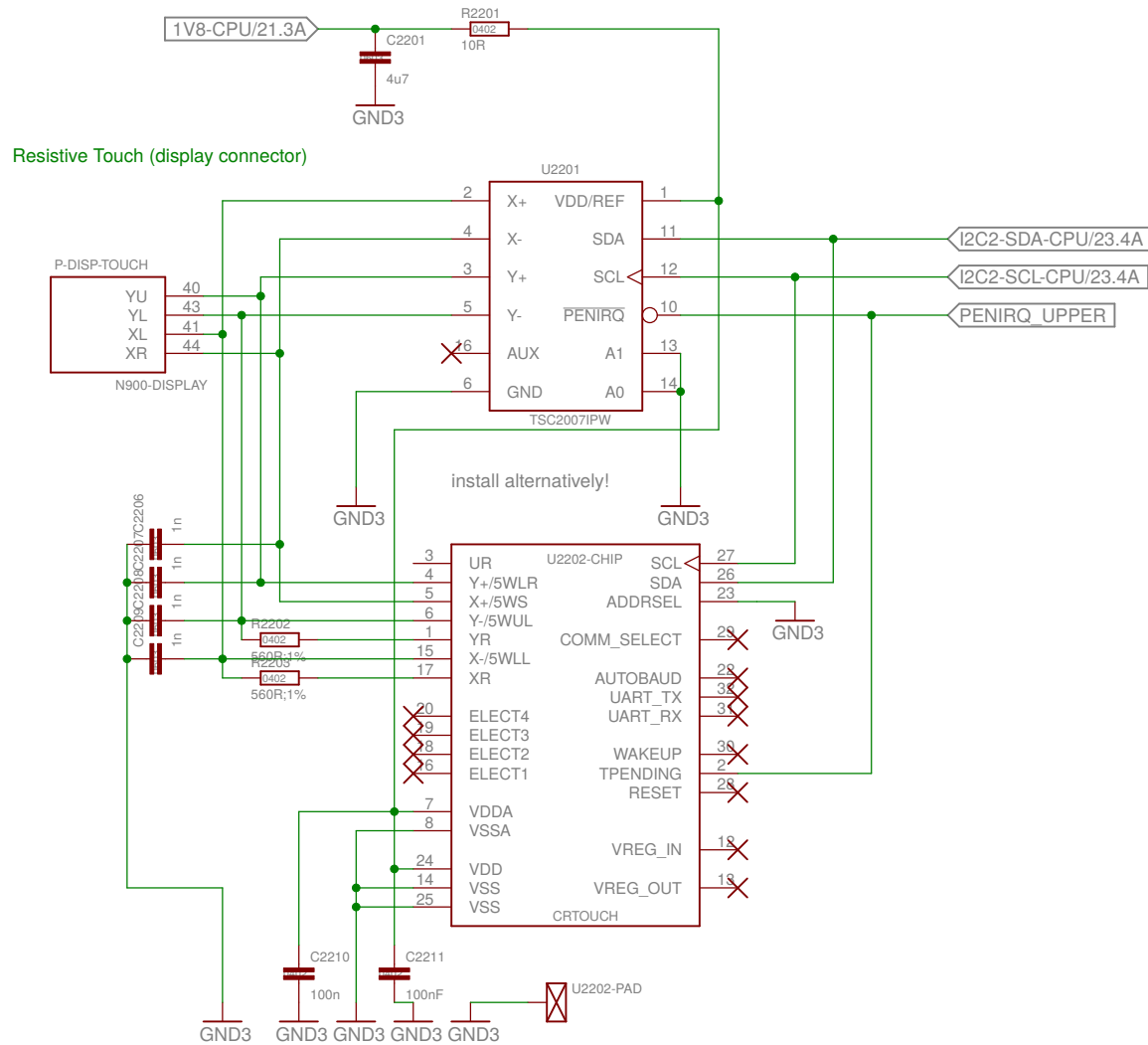
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replace by 2x RB521ZS8A30 for space constraints



Display-Peripherals

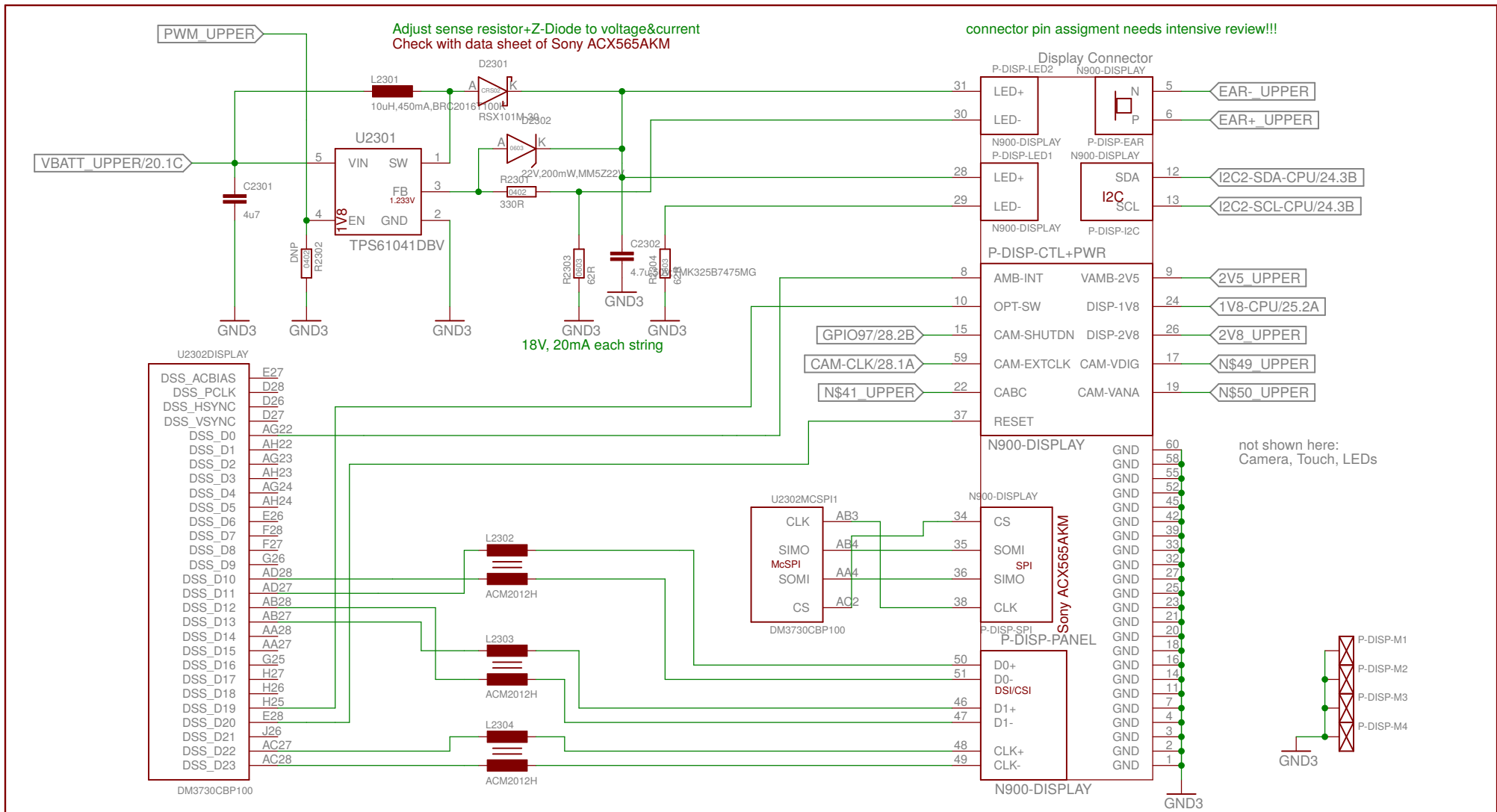
TITLE: sedtest

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REV:
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Display-Panel&Power

TITLE: sedtest

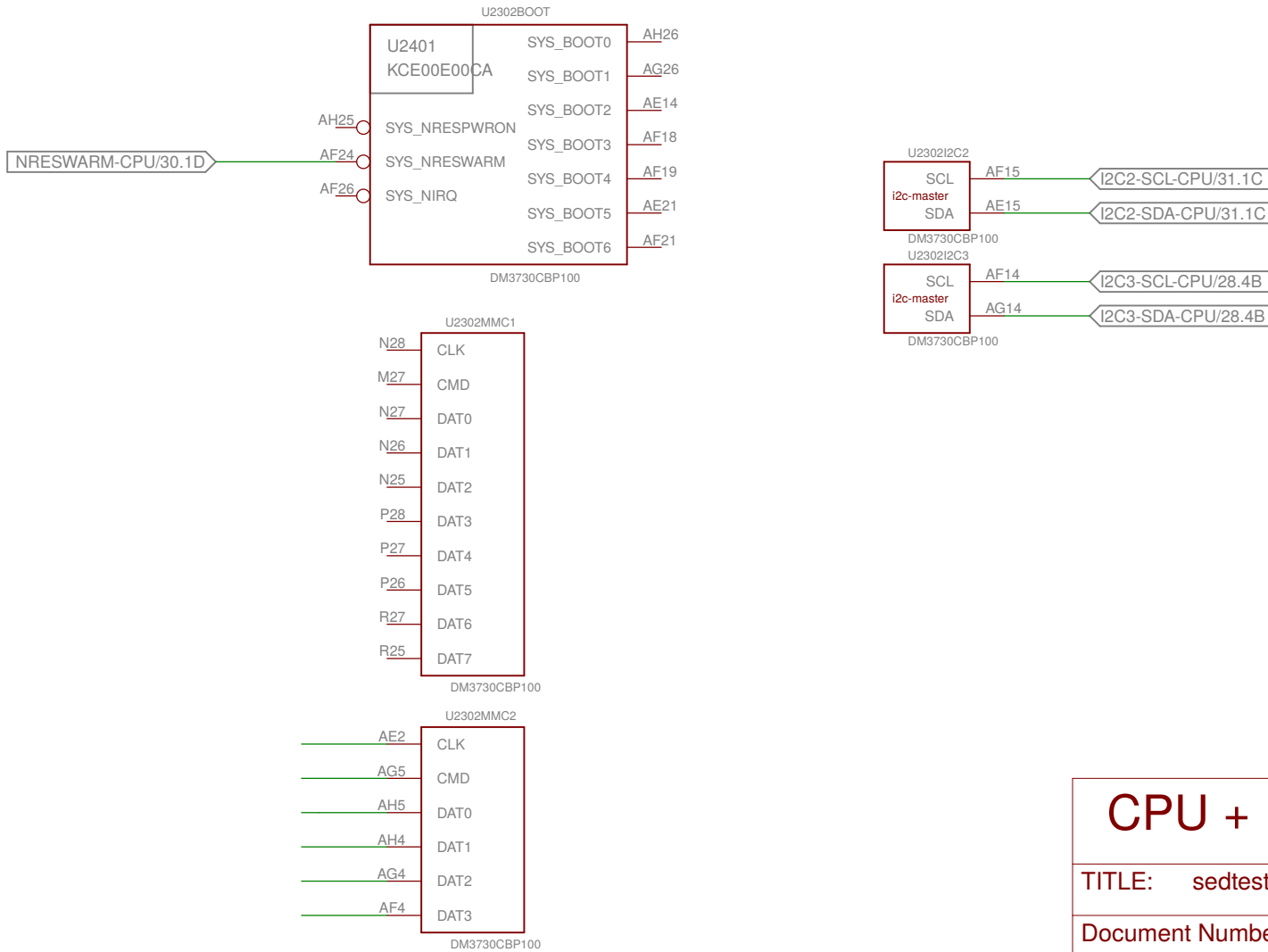
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V2b

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INCOMPLETE in V2



CPU + PoP RAM/NAND

TITLE: sedtest

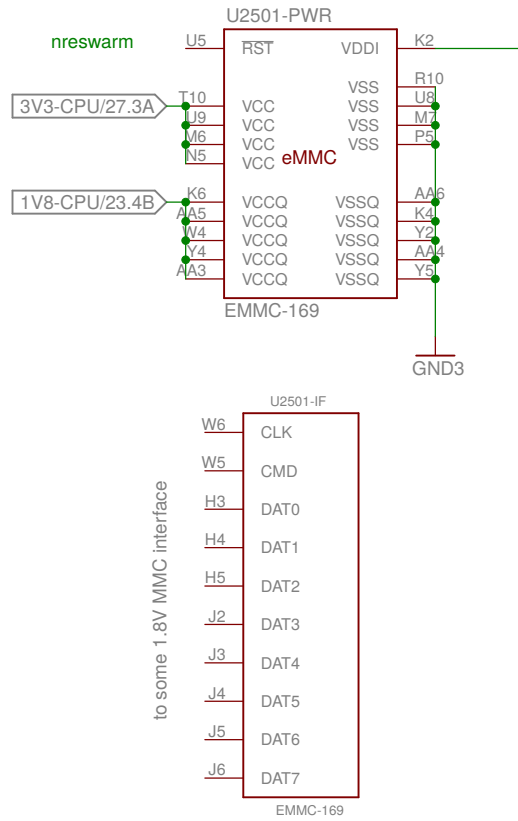
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INCOMPLETE in V2



eMMC

TITLE: sedtest

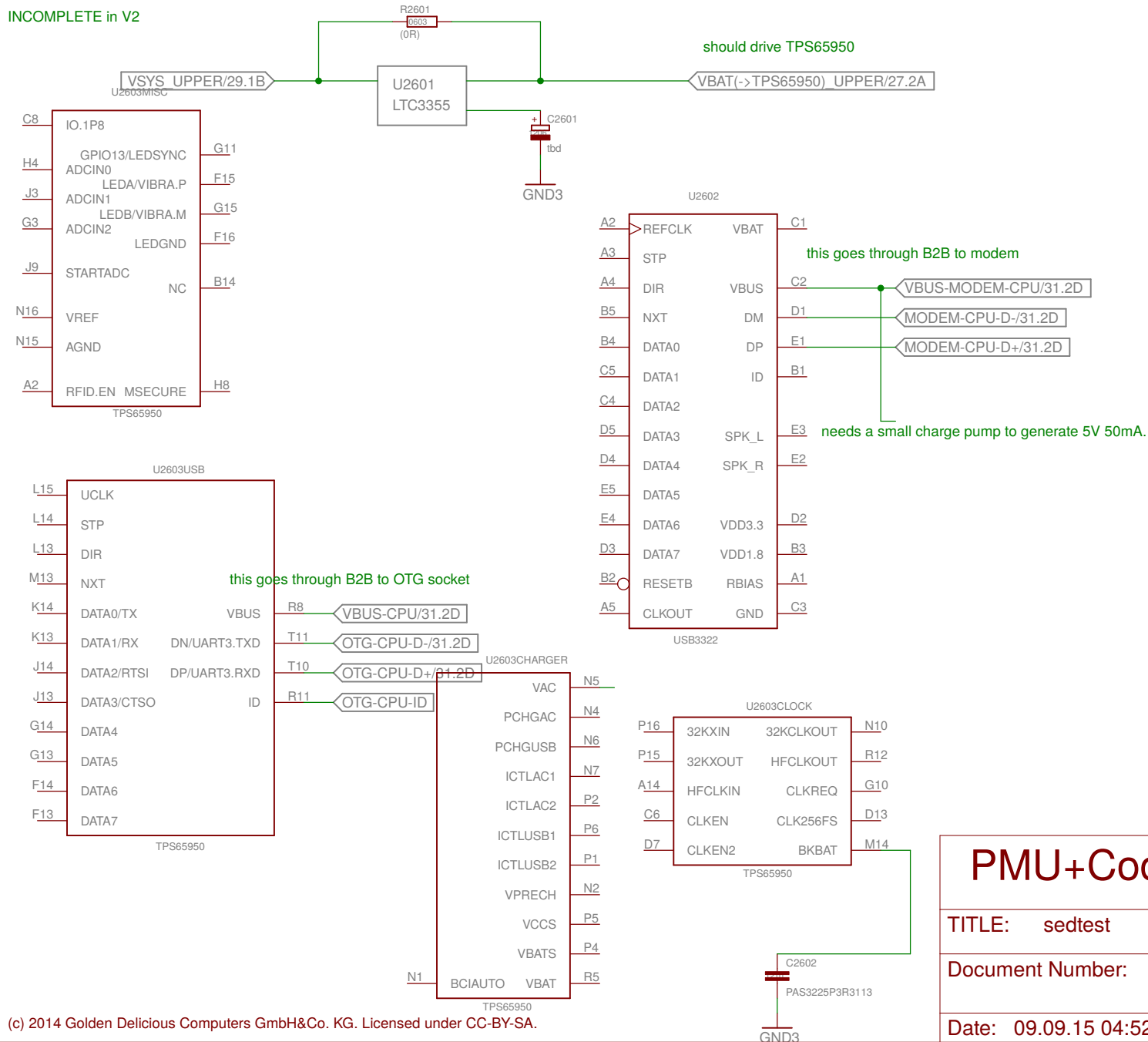
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INCOMPLETE in V2



PMU+Codec

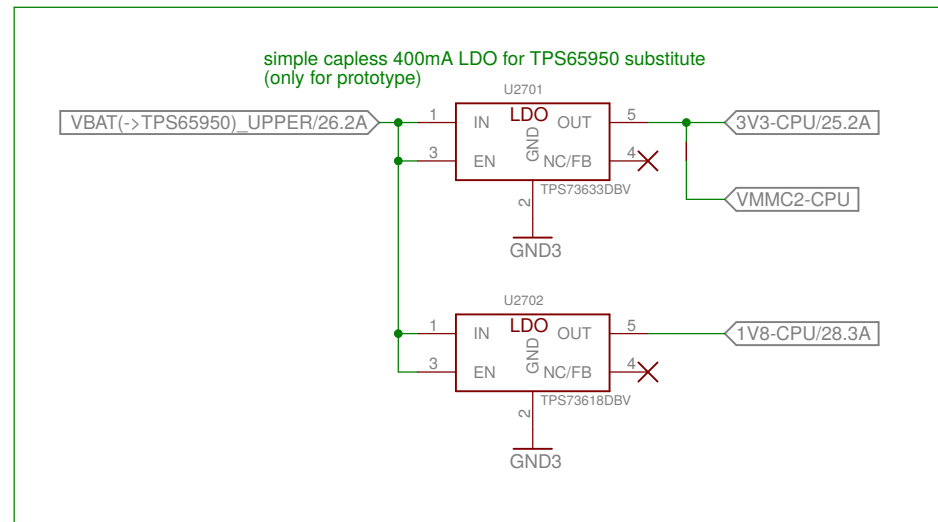
TITLE: sedtest

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BB-XM Dummy (TWL4030)

TITLE: sedtest

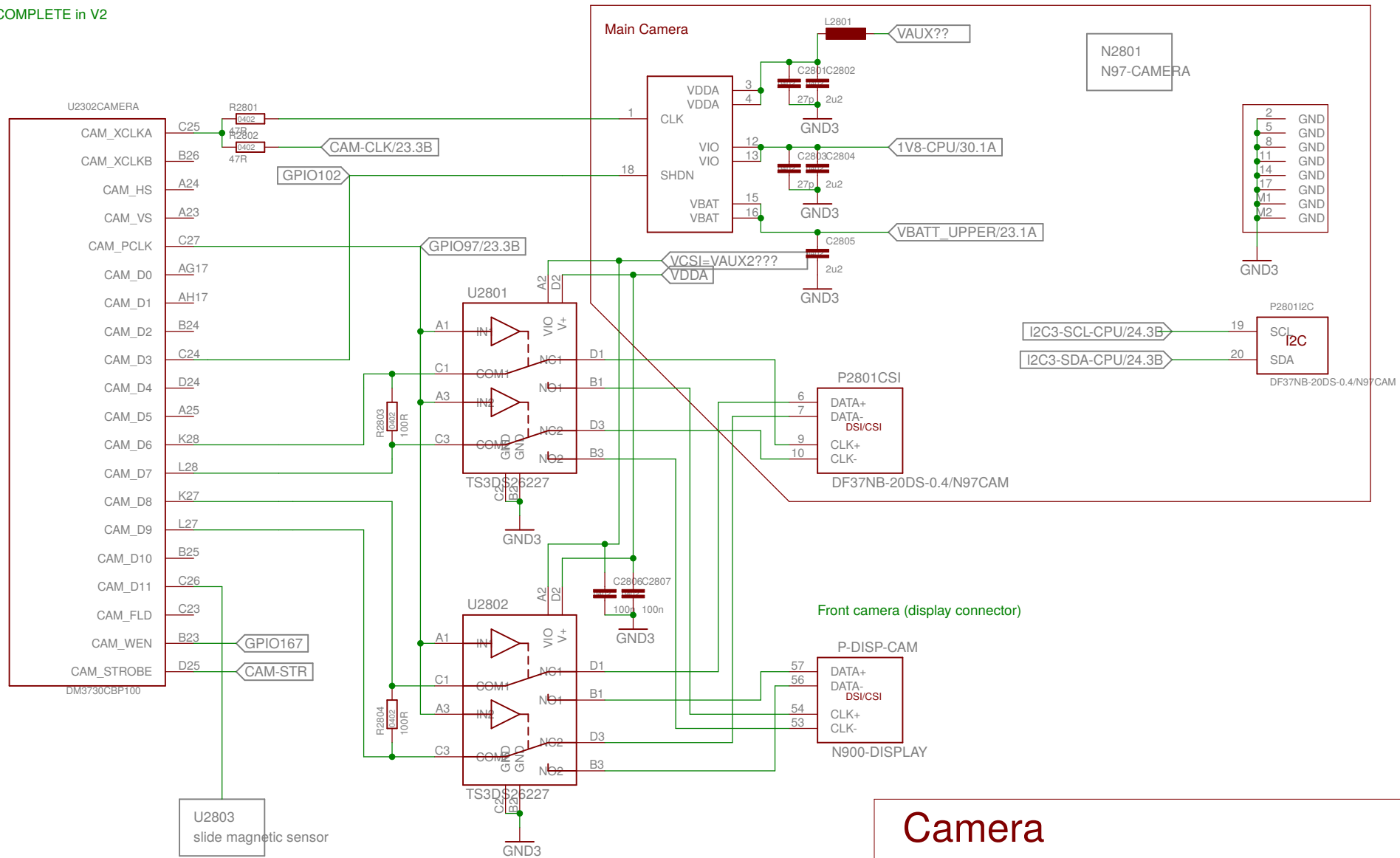
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INCOMPLETE in V2



Camera

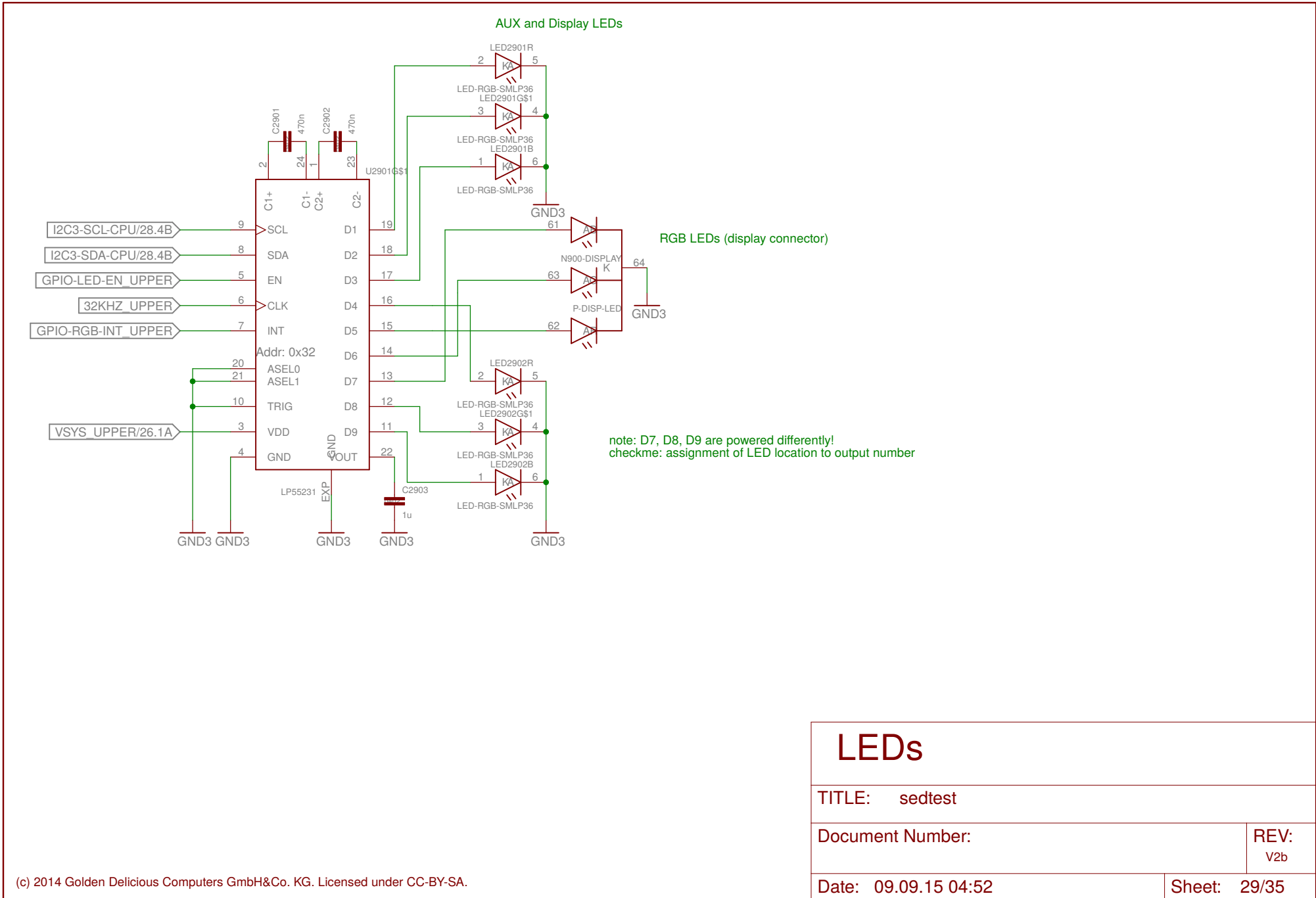
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LEDs

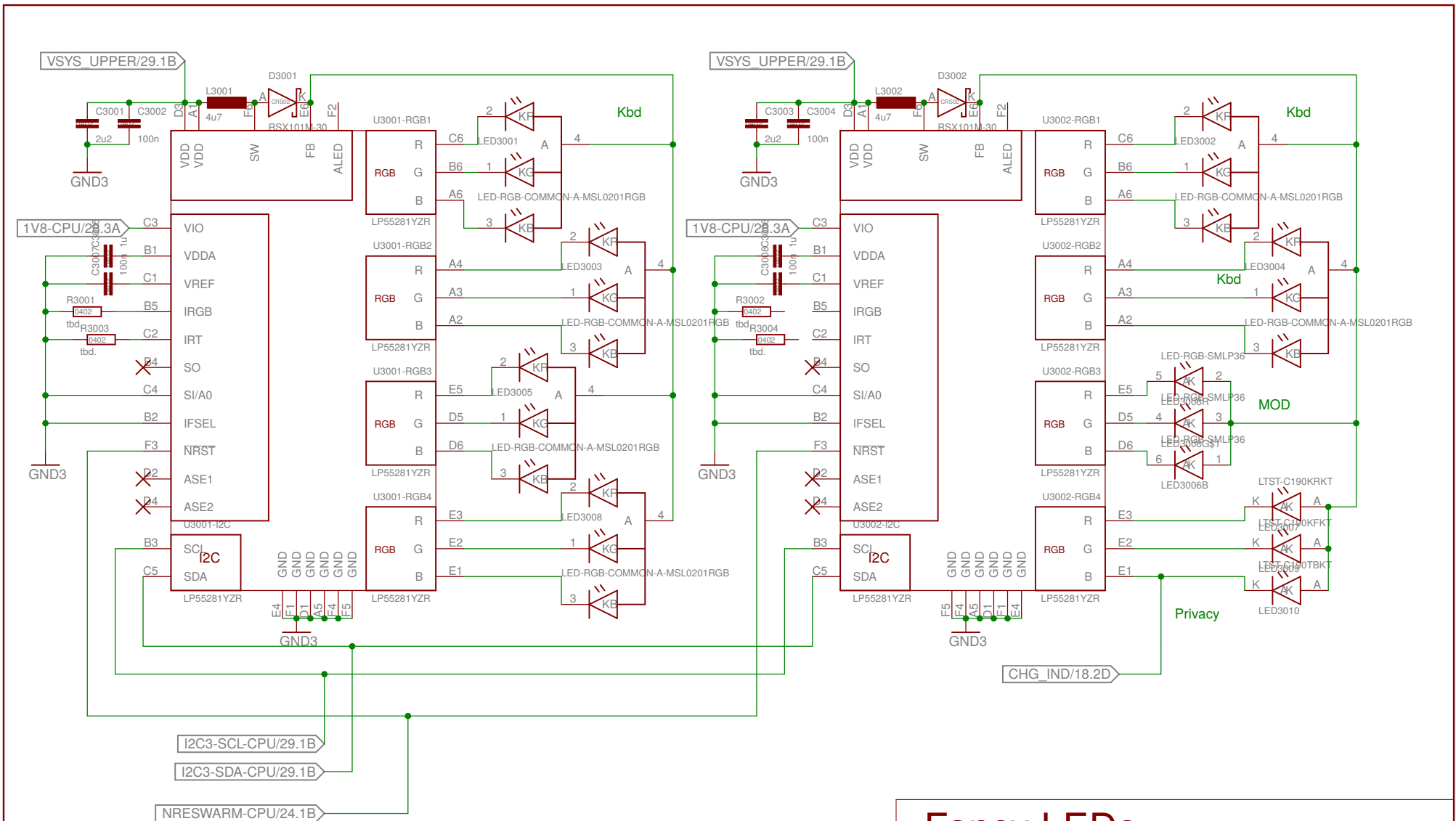
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Fancy LEDs

TITLE: sedtest

Document Number:

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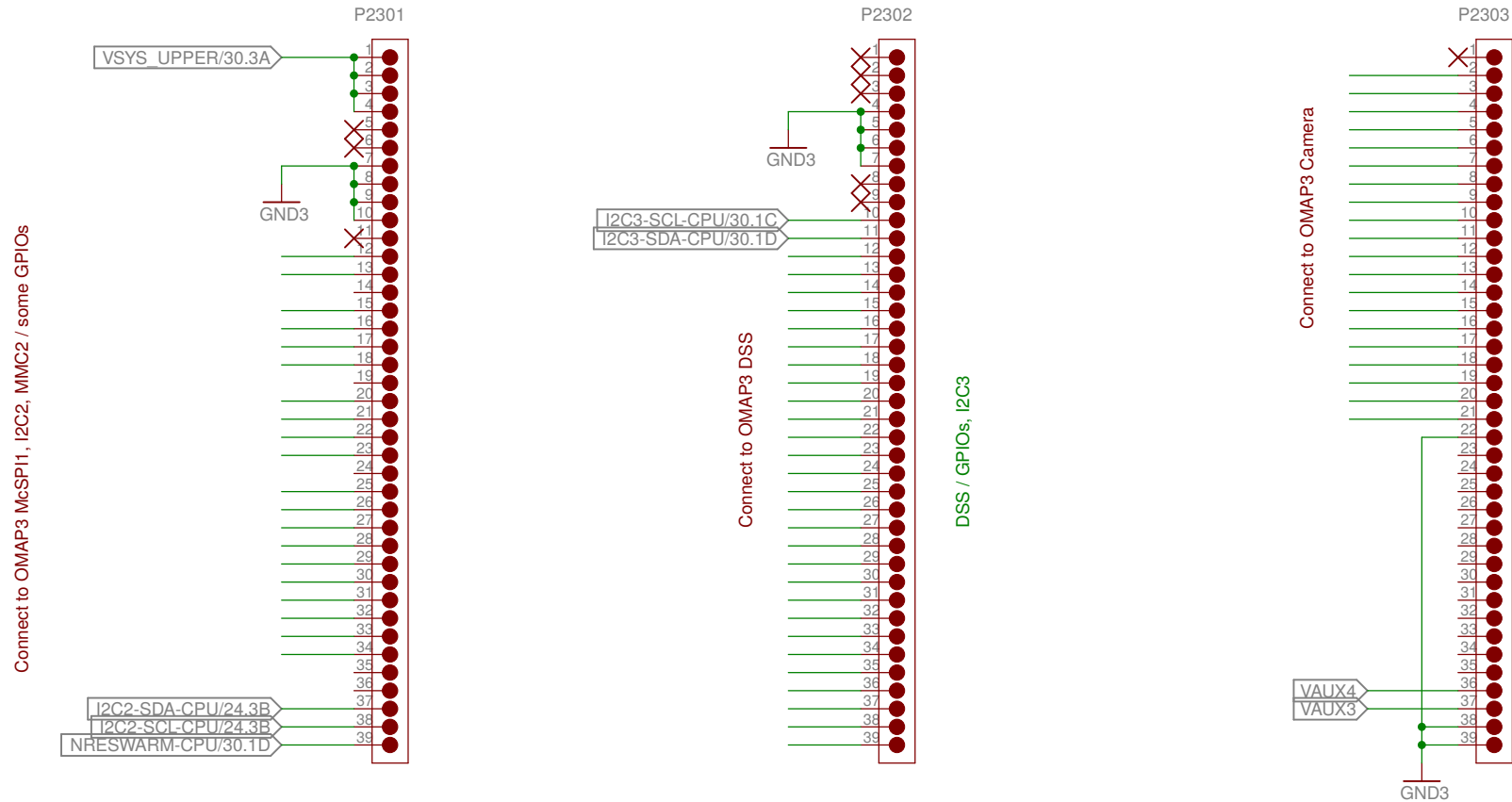
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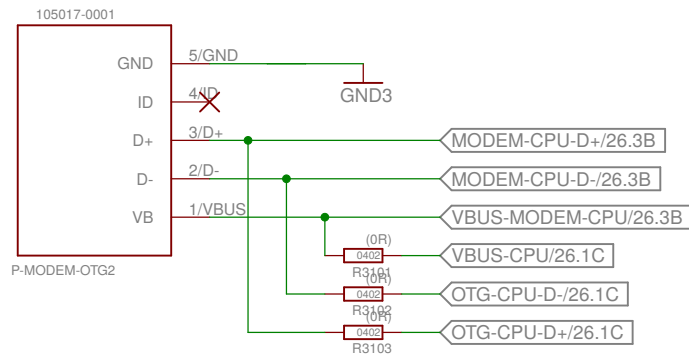
These connectors allow to "emulate" the DM3730 by connecting a BB-XM

INCOMPLETE
prototype only

connect to respective CPU-pads



connect to BB
by some Micro-USB cable



Connector to BB

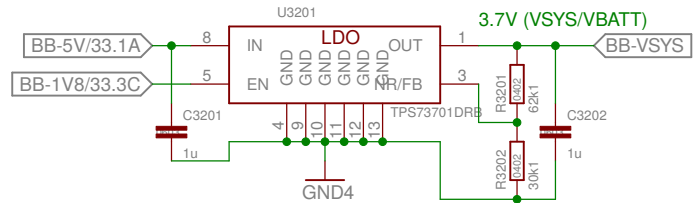
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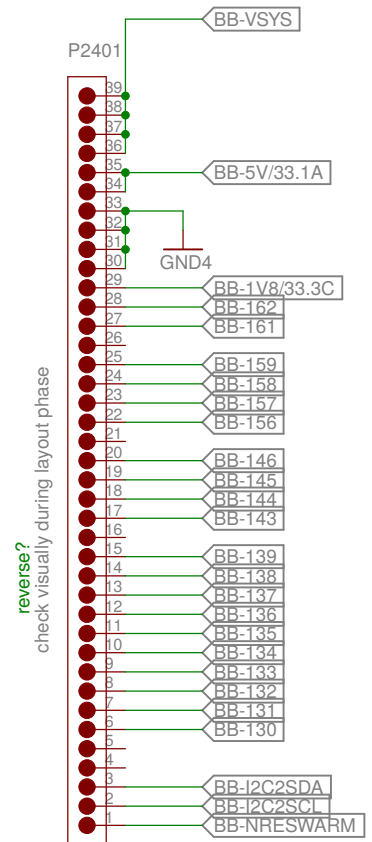
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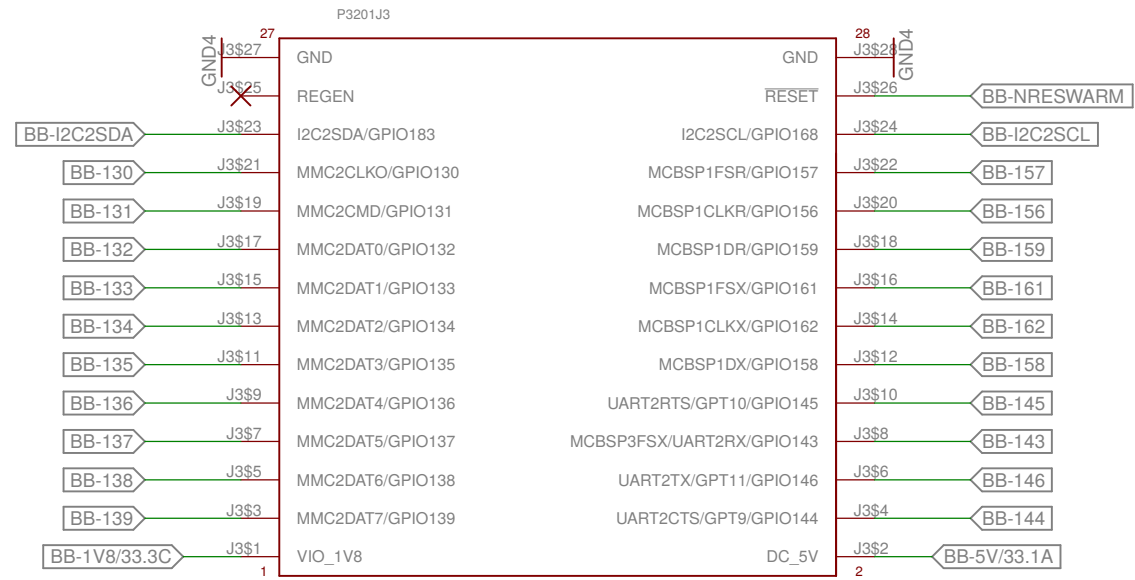
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Ersetzen durch 2A buck converter



reverse?
check visually during layout phase



Top View on BB

BB-XM Adapter (CPU)

TITLE: sedtest

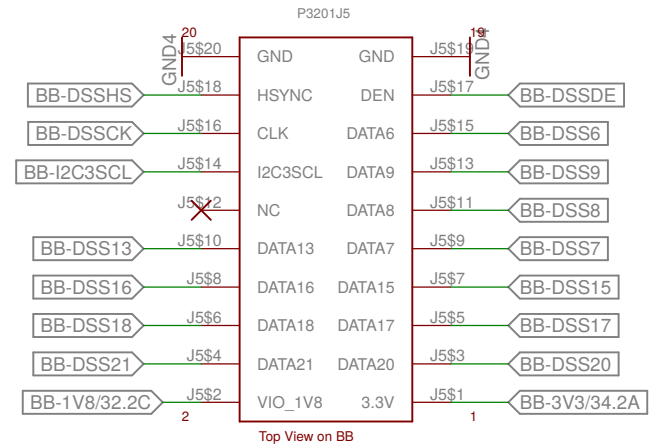
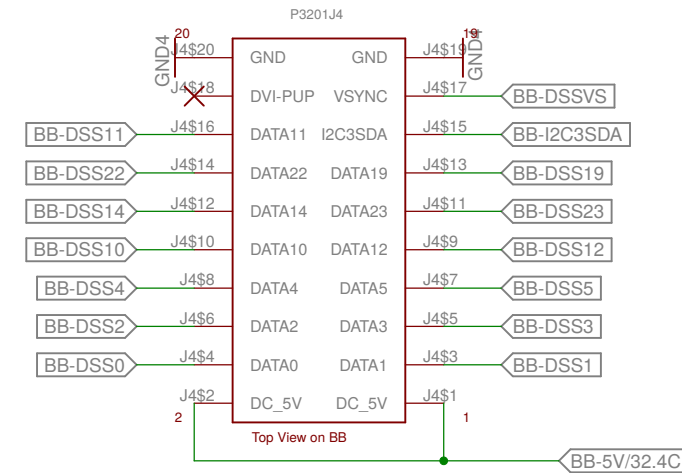
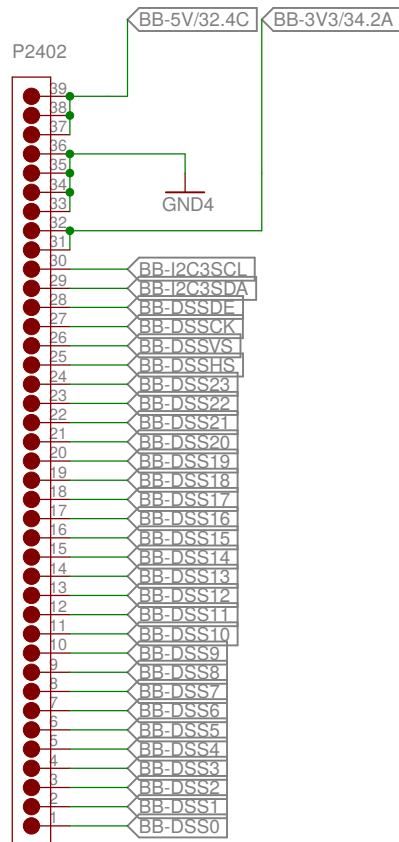
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reverse?
check visually during layout phase



BB-XM Adapter (DISP)

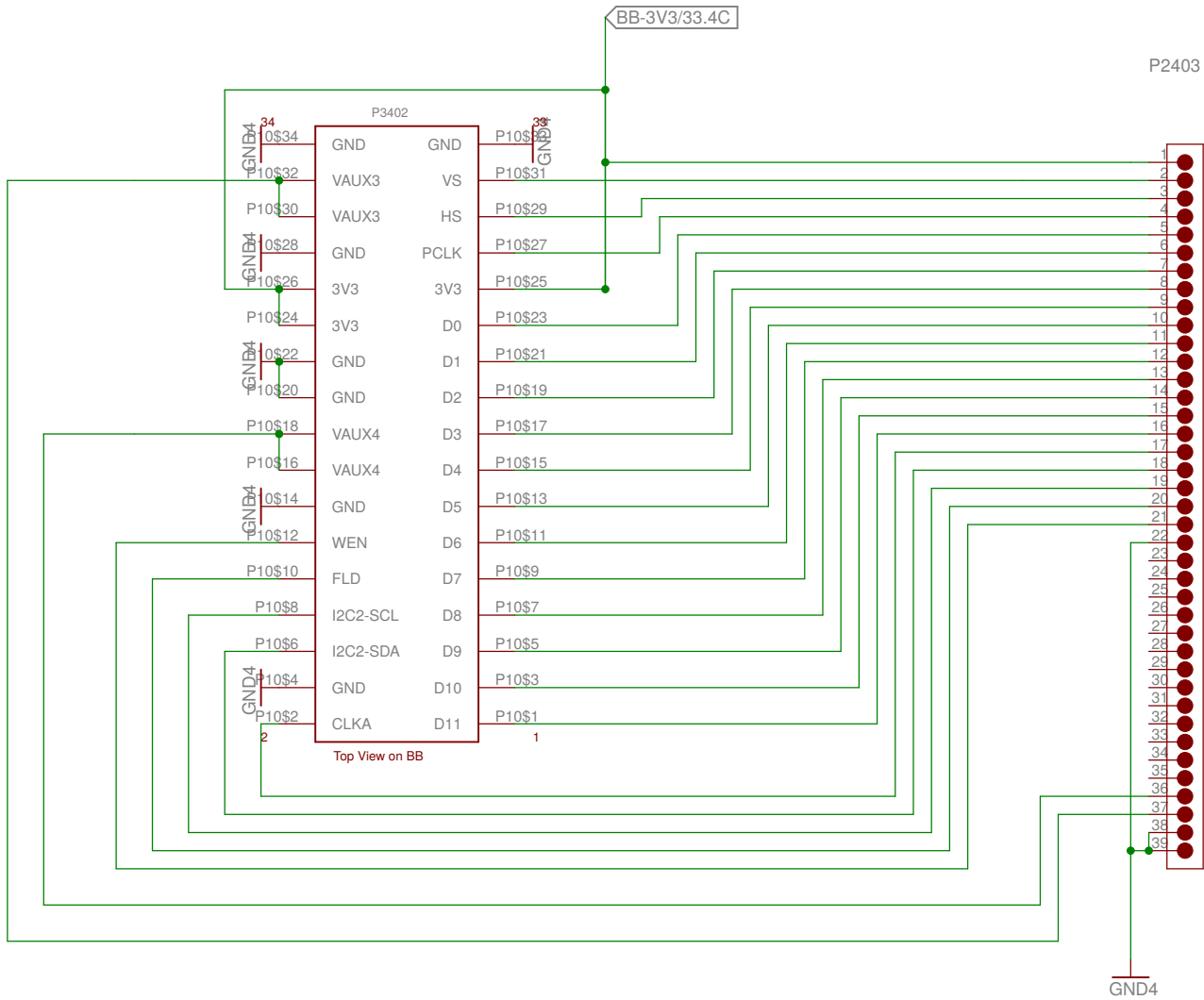
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BB-XM Adapter (CAM)

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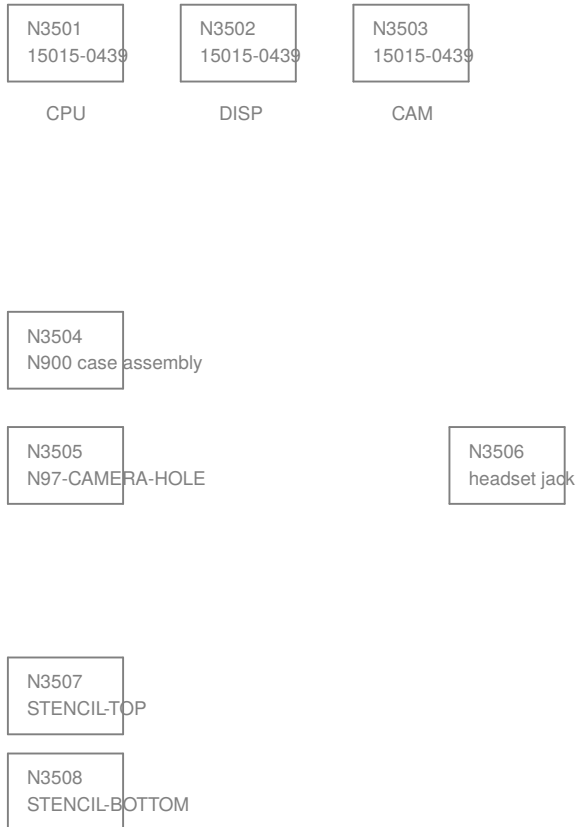
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Molex Jumper cables to connect BB-XM-Adapter to Uppwer board



No-Solder Components

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